



# Search Report

## EIC 2600

### STIC Database Tracking Number

To: KIRSTEN APPLE  
Location: KNX-5A78  
Art Unit: 3693  
Saturday, August 04, 2007

Case Serial Number: 10/023899

From: SYLVIA KEYS  
Location: EIC2600  
KNX-8B59 / KNX-8B55  
Phone: (571)272-3534

sylvia.keys@uspto.gov

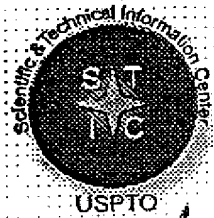
### Search Notes

Dear Examiner APPLE:

Attached are the results for your search. If you would like a refocus, please let me know.

Thank you,

Sylvia



231540

# STIC EIC 3600 Search Request Form

Today's Date: 7/17/07 Class/Subclass 705 What date would you like to use to limit the search?  
Priority Date: \_\_\_\_\_ Other: \_\_\_\_\_

Name Kirsten Apple Format for Search Results (Circle One):  
AU 3693 Examiner # 81241 PAPER Put under door if not  
Room # Box 5-A7B Phone 2-5588 DISK EMAIL  
Serial # 10-~~023-899~~ 023-899 Where have you searched so far?  
USP DWPI EPO JPO ACM IBM TDB  
IEEE INSPEC SPI Other \_\_\_\_\_

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

wind farm  
or  
renewable energy  
and  
forecast  
and  
option (financial instrument)

- note:  
no hurry/  
rush - don't  
need till  
September.

STIC Searcher Sylvia Keys Phone 23534  
Date picked up 8/4 Date Completed 8/4





# STIC Search Results Feedback Form

## EIC 2600

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Pamela Reynolds, EIC 2600 Team Leader  
571-272-3505, Knox 8B59

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 2663

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2600 Knox 8B59



File 344:Chinese Patents Abs Jan 1985-2006/Jan  
(c) 2006 European Patent Office  
File 347:JAPIO Dec 1976-2007/Dec(Updated 070702)  
(c) 2007 JPO & JAPIO  
File 350:Derwent WPIX 1963-2007/UD=200749  
(c) 2007 The Thomson Corporation  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.  
File 324:German Patents Fulltext 1967-200728  
(c) 2007 Univentio  
File 348:EUROPEAN PATENTS 1978-2007/ 200731  
(c) 2007 European Patent Office  
File 349:PCT FULLTEXT 1979-2007/UB=20070726UT=20070719  
(c) 2007 WIPO/Thomson

Set	Items	Description
S1	406	WIND() FARM?? OR WINDFARM?
S2	2405	RENEWABLE(3N) (ENERGY OR POWER() PRODUCTION)
S3	135	(WIND() TURBINE OR TIDAL OR SOLAR) (3N) FACILITIES
S4	30600	WIND(3N) (ENERGY OR POWER OR SPEED?? OR CURRENT??)
S5	1249942	METEOROLOG? OR ENVIRONMENT? OR WEATHER
S6	3370691	COMPUTERI? OR AUTOMATED OR ELECTRONIC?
S7	2882	S6(5N) (FORECAST? OR PROBABILIT? OR PREDICT? OR LIKELIHOOD)
S8	2260	S6(5N) (ODDS OR EXPECT? OR FORESEE?)
S9	212	S6(5N) (RISK() (ASSESS? OR ANALYSIS OR MANAGEMENT))
S10	455928	(INVEST? OR (INVESTMENT OR FINANCIAL) (3N) (PRODUCT? ? OR INSTRUMENT?) OR COMMODITY OR COMMODITIES)
S11	187	AU=(LOF, P? OR LOF P? OR GERTMAR, L? OR GERTMAR L? OR ANDREN, L? OR ANDREN L? OR LUNDQUIST, F? OR LUNDQUIST F? OR WIGERT, P? OR WIGERT P? OR PER(2N) LOF)
S12	93	LARS(2N) GERTMAR OR LARS(2N) ANDREN OR FRANS() LUNDQUIST OR PETER(2N) WIGERT
S13	32523	S1:S4
S14	7520	S13 AND S5
S15	52	S14 AND (S7:S9)
S16	14	S15 AND S10
S17	187	S11 OR S12
S18	9	S17 AND S1
?		

16/3,K/1 (Item 1 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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01556082

**METHOD FOR PREDICTING DEGREE OF CORROSION OF WEATHER -RESISTANT STEEL**  
**VERFAHREN ZUR VORHERSAGE DES KORROSIONSGRADES VON VERWITTERUNGSBESTANDIGEM STAHL**

**PROCEDE DE PREDICTION DU DEGRE DE CORROSION D'UN ACIER RESISTANT AUX INTEMPERIES**

**PATENT ASSIGNEE:**

NIPPON STEEL CORPORATION, (2343942), 6-3, Ohtemachi-2-chome Chiyoda-ku,  
Tokyo 100-8071, (JP), (Applicant designated States: all)

**INVENTOR:**

KIHIRA, Hiroshi, NIPPON STEEL CORPORATION, Technical Development Bureau,  
20-1, Shintomi, Futtsu-shi, Chiba 293-0011, (JP)  
FUJII, Yasumori, NIPPON STEEL CORPORATION, 6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8071, (JP)  
HARADA, Yoshiyuki, NIPPON STEEL CORPORATION, Technical Development  
Bureau, 20-1, Shintomi, Futtsu-shi, Chiba 293-0011, (JP)  
KUSUNOKI, Takashi, NIPPON STEEL CORPORATION, 6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8071, (JP)  
FUJIKAWA, Norihito, NIPPON STEEL CORPORATION, 6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8071, (JP)  
TAKEZAWA, Hiroshi, NIPPON STEEL CORPORATION, 6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8071, (JP)  
YASUNAMI, Hiromichi, NIPPON STEEL CORPORATION, 6-3, Otemachi 2-chome,  
Chiyoda-ku, Tokyo 100-8071, (JP)  
MATSUOKA, Kazumi, NIPPON STEEL CORPORATION, Technical Development Bureau,  
20-1, Shintomi, Futtsu-shi, Chiba 293-0011, (JP)

**LEGAL REPRESENTATIVE:**

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1408324 A1 040414 (Basic)

WO 2003006957 030123

APPLICATION (CC, No, Date): EP 2002745949 020711; WO 2002JP7037 020711

PRIORITY (CC, No, Date): JP 2001212764 010712; JP 2001342763 011108

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS (V7): G01N-017/00

ABSTRACT WORD COUNT: 122

**NOTE:**

Figure number on first page: 0005

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200416	3740
SPEC A	(English)	200416	15544
Total word count - document A			19284
Total word count - document B			0
Total word count - documents A + B			19284

**METHOD FOR PREDICTING DEGREE OF CORROSION OF WEATHER -RESISTANT STEEL**

...ABSTRACT painted or unpainted atmospheric corrosion resistant steel is calculated by using extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

...be used, and intrinsic corrosion information on components of the atmospheric corrosion resistant steel. The **weather** observation data on this occasion preferably includes the annual wetness time, annual mean **wind speed**, and annual mean temperature. Moreover, it is preferable to calculate a corrosivity index, estimate a...

...SPECIFICATION test over a period of approximately ten years in a construction site or under atmospheric **environmental** conditions similar to those of the construction site, finding a value A and a value...

...XII), p20, March, 1992).

However, in this predicting method, the exposure test in actual atmospheric **environment** over a period of approximately ten years is necessary to obtain constant terms, the value...

...in each flow, only factors which contribute to the amount of corrosion in the usage **environment** are substantially arranged, and no quantitative criterion for judging the propriety of use of a steel type to be applied based on a predicted corrosion amount in an adaptive **environment** is proposed or disclosed. Namely, these flows are not effective solutions for a demand for **environment** similar to the construction site are indispensable, and to obtain the data, high expenses of...

...some cases, abnormality does not occur to the atmospheric corrosion resistant steel even under the **environmental** condition of an airborne salt amount of 0.05 mdd or more. Therefore, there are...

...occurs, which causes unexpected repairing expenses.

As described above, no theory which associates corrosivity of **environmental** conditions with rust stabilization performance of the atmospheric corrosion resistant steel exists, and hence it...

...a long-term corrosion loss of an atmospheric corrosion resistant steel by calculation based on **weather** data, airborne salt amount data, and sulfur oxide amount data in the vicinity of a...

...a predicted corrosion amount of the atmospheric corrosion resistant steel using extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

...used, and intrinsic corrosion information on components of the atmospheric corrosion resistant steel, with an **electronic** calculator.

A system for **predicting** a corrosion amount according to the present invention is characterized by comprising: an input means...

...a predicted corrosion amount of an atmospheric corrosion resistant steel with extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

...steel containing Mo, Cu, Ti, Cr, and so on, which has been recently developed.

The **weather** observation data is data obtained by observing **weather** conditions under which the atmospheric corrosion resistant steel is exposed. For example, the **weather** observation data includes data on an annual wetness time TOW (h), an annual mean temperature T ((degree)C), an annual mean **wind speed** W (m/sec.), and so on.

The amount of airborne salt is a value obtained...

...data is widely used as an index indicating how much salt is contained in atmospheric **environment** such as a construction site and at what speed the salt adheres to a structure...

...index indicating how much sulfur oxide such as sulfur acid gas is contained in atmospheric **environment** such as a construction site and at what speed the sulfur oxide adheres to a...

...the program causes a computer to calculate a predicted corrosion amount with extrinsic information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

resistant steel...

...a server for calculating a predicted corrosion amount of an atmospheric corrosion resistant steel with **environmental** data including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide, and intrinsic...

...corrosion resistant steel from a terminal device via an electric communication line;  
the user inputting **environmental** data including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a ...

...a predicted corrosion amount of each of the atmospheric corrosion resistant steels based on the **environmental** data and the intrinsic corrosion information;  
the server transmitting the predicted corrosion amount to the...

...comprising the steps of:  
a person in charge of business inputting extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

...for use where a customer plans to use an atmospheric corrosion resistant steel to an **electronic** calculator for calculating a **predicted** corrosion amount of an atmospheric corrosion resistant steel with extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide and intrinsic...

...than one type of atmospheric corrosion resistant steel which the customer plans to use;  
the **electronic** calculator calculating a **predicted** corrosion amount of each of the atmospheric corrosion resistant steels; and  
the person in charge...

...further comprising the step of the server acquiring at least part of elements constituting the **environmental** data in a manner other than the input by the person in charge of business...

...a predicted corrosion amount of an atmospheric corrosion resistant steel with extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a ...

...predicted corrosion amount of each of atmospheric corrosion resistant steels with extrinsic corrosion information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

...calculating a predicted corrosion amount of the atmospheric corrosion resistant steel with extrinsic information including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide in a...

...communication line, for calculating a predicted corrosion amount of an atmospheric corrosion resistant steel with **environmental** data including **weather** observation data, an amount of airborne salt, and an amount of sulfur oxide, and intrinsic...

**GENIUS ADAPTIVE DESIGN**  
**MODELE D'ADAPTATION AU GENIE**

Patent and Priority Information (Country, Number, Date):

Patent: WO 200781519 A2 20070719 (WO 0781519)  
Application: WO 2006US48704 20061219 (PCT/WO US2006048704)  
Priority Application: US 2005755291 20051230; US 2006756607 20060105; US  
2006778313 20060301; US 2006783018 20060315; US 2006786906 20060328; US  
2006852794 20061018

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN  
KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI  
NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT  
TZ UA UG US UZ VC VN ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 520275

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... Distancer (brings client to inventions) Editor (adapts instructions,  
etc) Educator (learn to use invention) Entertainment \* **Environmental**  
Protection is important Exercise \* Experience (improve user's experience  
so they spend more) Game (concepts...  
  
...Gets Harder™ Adjusts to user's proficiency. ENTERTAIN = Also  
used as form of entertainment. **ENVIRONMENTAL** PROTECTION / E.P. =  
['Customizes] EP friendliness! EXERCISE = Also used as form of exercise.  
FX = Fax...  
  
...power players that does not on average elevate needed  
benefits/improvements for the (regional) citizenry. . ' **Environmental**  
Protection: recycling; generating/saving energy. 'Track via 'VA, 'SA,  
'BA. . Certain organizations obstruct the development...  
  
...what they want. Establishing my consistency in not putting up with  
fraudulent practices had a ' **predicted** benefit in having fewer conflicts  
(infringements). . Making our business and other services more  
'accessible via...  
  
...belong. Tying pens to clipboard. Theft reduction. ENTERTAIN = 'W5  
'entertainment generates greater [long term] 'billing. ENVIRONMENTAL  
PROTECTION / E.P. = Electrical consumption by [fixed] devices like  
lighting, HVAC [heating ventilation and air...Q = know 'W5 questions to  
ask ROUTE / ROUTER = direct prospective clients to the services we '  
**predict** they need; or even to other organizations based on their  
behavior profile. S&R / SEEK...  
  
...and/or clients 'seek and 'react to each other. SYNTH = which voice  
tonalities 'W5 had ' **predictable** 'reactions in listeners/users. T / TEL  
= business incubator phone system features recommended by OBCAI TGH...RH  
= rhythm RL = real life game, played in or outdoors, requires people  
moving " in an **environment** SD = speaker telephone; new Parts "sp tel";  
"T"\* SC = sound communicator: receives ("mic") and or...  
...existing softwares).-Definitions of functions used in marketing research



softwares: survey (methods, questions, responses, "analysis"),  
**environment** , marketing research, customer profiles, (changes in) sales  
figures (eg: more and less of certain models...

...chew over (slang), confab (slang), consider, estimate, evaluate, figure,  
figure out, hash (slang), inspect, interpret, **investigate** , judge, kick  
around (slang), rehash, resolve, scrutinize, sort out, spell out, study,  
test, think through...

...round (slang), pastime, picnic (slang), play, pleasure, relaxation,  
relish, sport, whoopee (slang) Alternatives & Keywords for **ENVIRONMENTAL**  
**PROTECTION** feature: ecology, **environmental** control, **environmental**  
impact analysis, **environmental** management, **environmental** monitoring,  
**environmental** policy, **environmental** science, **environmentology**  
Alternatives & Keywords for EXERCISE feature: act, action, activity,  
calisthenics, constitutional (slang), discharge, discipline, drill,  
drilling...

...recreation, romp, scheme, sport, sports, undertaking Alternatives &  
Keywords for GPS feature: X, area, bearings, district, **environment** ,  
fix, geography, ground, locale, locality, location, locus, point, post,  
reference, region, scene, seat, setting, site...territory, tract  
Alternatives & Keywords for QUESTION feature: examination, feeler,  
inquest, inquiring, inquiry, inquisition, interrogation, interrogatory,  
**investigation** , poll, query, questioning, third, third degree (slang),  
wringer (slang) Alternatives & Keywords for ROUTE feature: address...

...dig for, dragnet, explore, fan, ferret out, fish, follow, go after, gun  
for, hunt, inquire, **investigate** , look about, look around, mouse, nose,  
prowl, prowl after, pursue, quest, ransack, root, run after...

...tonality, tone, vibration, voice, assay, chew over, consider, estimate,  
evaluate, figure out, hash, inspect, interpret, **investigate** , judge, sort  
out, spell out, study . US Patent Classification Codes for SA: 701.231  
Data...

...file "Introductory Notes-Less Important" for help in reading this file.  
ACCESS = Gain access to **electronic** product's controls with a correctly  
keyed in combination.-kw: access\*, computer\*, entry, (gain\* or...

...tds \*tilt \*track uip vibration va \*zone SOUND ANALYZER = analyzer ba  
interactive k locator \*nr **predict** score seek&react sensor status STATUS  
= analyzer bill score sensor tds \*uip \*zone SW (Software...

...software) menu.-Radio Broadcast Data System: 1] U's radio interrupted to  
give traffic or **weather** warnings (KN: combine gps = sys). 2] "s" shows  
messages from stations, eg: song name & artist...

...like Japan where they are extremely expensive. Applications: long  
distance tel communication; information from mfh ( **weather** , news,  
entertainment); dial into your mother/lover.-They can also be produced  
cheaply and given...selecting from option in menu; PP; UIP-ap: good for  
music education; useful in my **computerized** musical instructor product  
too; teaches people how to be more polite (on or off tel...Applications:  
W5 of the company's current activities, which can also be used to better  
**forecast** , and make any needed changes. Catching illegitimate users of  
long distance calls (system can alert **investigator**  
(irregularities/strangeness/non-matchings), who can then look into matter  
further). SCORE. .-related for this...

...8212;develops personality profile in C; what user "uk" = C. %-o-C1 12  
Computer ("C") **predicts** human error. Input UIP (working conditions of  
person). System **predicts** errors they're likely to make. 30 Sept 92  
YD.-Sends warning via "tel". D...be needed to handle the applicable tasks  
called for. . For Techies: Forms of Analysis: estimate, ' **predict** ,  
figure out, inspect, interpret, **investigate** , judge, resolve,

...odor] released at designated stages in time/place.-Heat / Cold (air flow/mat) (according to **weather** /programming).-Alerter: master knows when pet gains access. (Owner might (manually) remove excess dirt).  
Animal...

16/3,X/3 (Item 2 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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01535977 \*\*Image available\*\*

PASSIVATING LAYER FOR FLEXIBLE ELECTRONIC DEVICES  
COUCHE DE PASSIVATION UTILISEE DANS DES DISPOSITIFS ELECTRONIQUES FLEXIBLES  
Patent Applicant/Assignee:

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, Oakland, California 94607-5200, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

LEE Kwanghee, 155 Willow Spring Lane, Apt. 202, Goleta, CA 93117, US, US (Residence), KR (Nationality),

HEEGER Alan J, 1042 Las Alturas Road, Santa Barbara, California 93103, US, US (Residence), US (Nationality),

Legal Representative:

HOU Tianjun et al (agent), FOLEY & LARDNER LLP, 1530 Page Mill Road, Palo Alto, California 94304-1125, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200779498 A2 20070712 (WO 0779498)

Application: WO 2007US60113 20070104 (PCT/WO US2007060113)

Priority Application: US 2006756604 20060104; US 2006872401 20060201

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN  
KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI  
NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT  
TZ UA UG US UZ VC VN ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12266

Fulltext Availability:

Detailed Description

Detailed Description

... and simultaneously pattern active electronic materials on lightweight flexible substrates. Products based on printed plastic **electronics** are **expected** to develop into a significant industry with a more than \$100 billion market opportunity that...

...enable large scale commercialization on plastic substrates.

[0006] Photocatalysis by titania (TiCb) has been extensively **investigated**, especially for air and water purifications. These applications are based on photogeneration of electron-hole...light intensity was calibrated using a standard silicon photovoltaic (PV) solar cell from the National **Renewable Energy** Laboratory (NREL). Measurements were carried out with the solar cells inside a glove box by

...

...performed using a Keithley semiconductor parametric analyzer (Keithley 4200) under N2 atmosphere. In order to **investigate** the **environmental** stability of the FET devices, the devices were taken out of the glove box and...

16/3,K/4 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2007 WIPO/Thomson. All rts. reserv.

01533776 \*\*Image available\*\*

**PASSIVATING LAYER FOR PHOTOVOLTAIC CELLS**  
**COUCHE DE PASSIVATION POUR DES CELLULES PHOTOVOLTAIQUES**  
Patent Applicant/Assignee:

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, Oakland, California 94607-5200, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

LEE Kwanghee, 155 Willow Spring Lane, Apt. 202, Goleta, CA 93117, US, US (Residence), KR (Nationality),  
HEEGER Alan J, 1042 Las Alturas Road, Santa Barbara, California 93103, US, US (Residence), US (Nationality),

Legal Representative:

HOU Tianjun et al (agent), FOLEY & LARDNER LLP, 1530 Page Mill Road, Palo Alto, California 94304-1125, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200779500 A2 20070712 (WO 0779500)  
Application: WO 2007US60124 20070104 (PCT/WO US2007060124)  
Priority Application: US 2006756604 20060104; US 2006872401 20060201

Designated States:

(All protection types applied unless otherwise stated - for applications 2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IS JP KE KG KM KN  
KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI  
NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT  
TZ UA UG US UZ VC VN ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 11677

Fulltext Availability:

Detailed Description

Detailed Description

... and simultaneously pattern active electronic materials on lightweight flexible substrates. Products based on printed plastic **electronics** are **expected** to develop into a significant industry with a more than \$100 billion market opportunity that...

...enable large scale commercialization on plastic substrates.

[0006] Photocatalysis by titania (TiO<sub>2</sub>) has been extensively **investigated**, especially for air and water purifications. These applications are based on photogeneration of electron-hole...light intensity was calibrated using a standard silicon photovoltaic (PV) solar cell from the National **Renewable Energy** Laboratory (NREL). Measurements were carried out with the solar cells inside a glove box by

...

...performed using a Keithley semiconductor parametric analyzer (Keithley 4200) under N2 atmosphere. In order to **investigate** the **environmental** stability of the FET devices, the devices were taken out of the glove box and...

16/3,K/5 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01482280

**ENERGY AND CHEMICAL SPECIES UTILITY MANAGEMENT SYSTEM**  
**SYSTEME DE GESTION DE SERVICES, D'ESPECES CHIMIQUES ET D'ENERGIE**

Patent Applicant/Assignee:

LIGHTRIDGE RESOURCES LLC, 1111 N. Loop West, Suite 200, Houston, TX 77008  
, US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

HURST Roger, 1111 N. Loop West, Suite 200, Houston, TX 77008, US, US  
(Residence), US (Nationality),  
KRITZINGER Johan A, 1111 N. Loop West, Suite 200, Houston, TX 77008, US,  
US (Residence), ZA (Nationality),  
ALLAN Peter, 1111 N. Loop West, Suite 200, Houston, TX 77008, US, US  
(Residence), US (Nationality),  
ELLISON Brent, 1111 N. Loop West, Suite 200, Houston, TX 77008, US, US  
(Residence), US (Nationality),  
KHATER Ajay, 13510 Perthshire Rd., Houston, TX 77079, US, US (Residence),  
US (Nationality),

Legal Representative:

KNOBLOCH Charles S et al (agent), ARNOLD & FERRERA, L.L.P., 2401 Fountain  
View, Dr., Suite 630, Houston, TX 77057, US

Patent and Priority Information (Country, Number, Date):

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Application: WO 2006US34565 20060905 (PCT/WO US2006034565)  
Priority Application: US 2005714038 20050902

Designated States:

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2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP  
KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO  
NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ  
UA UG US UZ VC VN ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 175987

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

... including factors outside the immediate technical operation.

Factors may include manufacture of product, contractual pricing,  
**environmental** objectives, or byproduct production. The problem is that  
optimization of outside factors may ignore individual...

...unnoticed and typically lead to sub-optimal operations and wrong

decisions.

[0007] Utility systems transporting **commodities** in plants are highly complex in configuration and therefore difficult to operate optimally as the...

...Minimizing energy and species consumption is not only a business problem but especially also an **environmental** and sustainable earth problem.

[0008] Furthermore, in the power market especially (but not exclusively) the...

...to the problem all power generators and consumers face-that of deciding what capacity to **invest** in-considering where peak pricing will pitch as a result (as far as the generator is concerned) and **investment** in self generation to offset peak pricing (as far as the consumer is concerned). The...

...co-operative application.

[0012] This invention is about: 1) reducing the energy/species consumption at **commodity** customer sites to optimize individual site operation and 2) harnessing the collective potential of a...

...of the plant process information and business information; the physical energy and/or chemical species **commodities** ; the utility assets used to transport and process them and also the business processes that...

...and paper plant.

[0017] "E/CS" for the purpose of this patent means all utility **commodities** (Energy and Chemical Species) that are handled through utility systems and used as utilities in...

...anticipated changes in production demands and other dynamic variables; Analyze and verify energy impacts of **investments** in the facilities; Act as a common platform to facilitate collaborative risk management and decision...

...anticipated changes in production demands and other dynamic variables; Analyze and verify energy impacts of **investments** in the facilities.

[0022] Act as a common platform to facilitate collaborative risk management and...

...here or for individual plants wanting to make some arrangements along these lines with their **commodity** suppliers. Further extensions of functionality at any/all tiers are also envisaged to enhance the...

...distinguish Utilities from Energy and Chemical species. Strictly speaking "Energy" and "Chemical Species2" are the "**commodities**" that are transported by means of the utility systems in plants. Energy is typically transported...

...the plant site level therefore is to optimize (minimize) consumption (cost) (or revenue if the **commodity** or its derivatives are sold outside of the site envelope) of the **commodity** Energy and Chemical Species through, focus on the Utility Systems that transport these **commodities** in the plants and also through operating on the consumers of these **commodities**. At the consortium level (collection of power generating sites and industrial power consumption sites) the...

...What would be the best strategy from patent point of view? 1. Focus on the **commodity** : E. g. Energy and Chemical Species management 2. Focus on the transport systems/consumers: E...

...include: \* Irreversible industry trends have occurred effecting target

included Visual C++ version 6.0 and...shall be provided complete with all the MS Visual C++ project files.

4. A development **environment** of MS Visual Studio Version 6.0, the included Visual C++ version 6.0 and...

Claim

... one of said at least one plant unit; collecting business data; collecting market data; collecting **meteorological** data; filtering said collected plant data, business data, market data, and **meteorological** data, thereby producing filtered data; performing data validation and status detection on said filtered data...

16/3,K/6 (Item 5 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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01405019 \*\*Image available\*\*

**A METHOD AND SYSTEM FOR CONDUCTING RESEARCH AND DEVELOPMENT ON AN URBAN SCALE**

**PROCEDE ET SYSTEME SERVANT A LA RECHERCHE ET AU DEVELOPPEMENT A L'ECHELLE URBAINE**

Patent Applicant/Assignee:

DESTINY USA, The Clinton Exchange, 4 Clinton Square, Syracuse, New York 13202, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

CONGEL Robert, 7237 Woodchuck Hill Road, Fayetteville, New York 13066, US, US (Residence), US (Nationality),  
LUSK Robert D, 602 Maverick Drive, Sadler, Texas 76264, US, US (Residence), US (Nationality),  
KENAN Bruce A, 105 W. Lake, Skaneateles, NY 13152, US, US (Residence), US (Nationality),  
BANERJEE Robi L, 223 Dewitt Street, Syracuse, NY 13203, US, US (Residence), US (Nationality),  
PIETRAFESA Richard C, 104 Wendell Terrace, Syracuse, New York 13203, US, US (Residence), US (Nationality),  
CONGEL Stephen, 2827 Benson Road, Skaneateles, New York 13152, US, US (Residence), US (Nationality),  
LORENZ Mike, 5109 Waterford Wood, Fayetteville, New York 13066, US, US (Residence), US (Nationality),  
O'MARA Tina, 7450 Sugarwood Lane, N. Syracuse, New York 13212, US, US (Residence), US (Nationality),  
AITKEN David M, 145 Goodrich Ave., Syracuse, New York 13210, US, US (Residence), US (Nationality),

Legal Representative:

HANCHUK Walter G (agent), Chadbourne & Parke LLP, 30 Rockefeller Plaza, New York, NY 10112, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200688550 A2-A3 20060824 (WO 0688550)  
Application: WO 2005US45660 20051214 (PCT/WO US2005045660)  
Priority Application: US 2004636339 20041214; US 2005215840 20050829

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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KN KP KR  
KZ LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG  
PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC  
VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
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Fulltext Availability:  
Detailed Description  
Claims

#### English Abstract

...from factors that affect an urban community such as, but not limited to, building construction, **environment** and bioremediation, energy systems, transportation systems, consumer behavior, complex **environments**, integrated security systems, and other systems that are vital to an urban community.

#### Detailed Description

... well known in the art that the function of research is the scholarly or scientific **investigation** of particular phenomena or hypotheses. More specifically, it is inquiry as to the nature of...

...to scientific study is a practical impossibility. On larger scales, such as in an urban **environment**, it is literally impossible to monitor all facets of this **environment** to obtain the data necessary to evaluate the hypothesis or phenomena. In such instances, scientific...

...methods of research and analysis that would be impossible to perform in a naturally-occurring **environment**. However, along with the relative ease afforded through the use of models, there comes the...

...of actual phenomena. This literature indicates that models do indeed accommodate scientific studies that are **investigations** comprising controlled experiments, statistical sampling, single variable modifications, reproducibility, and the like. However, the literature...

...population and mass of a large city include, but are not limited to, building construction, **environment** and bioremediation, energy systems, transportation systems, consumer behavior, complex **environments**, integrated security systems, and other factors that are vital to an urban community. Constructing such...

...further desirable and if such a model were situated in an appropriately sized and controlled **environment**.

#### Summary of the Invention

The present method and system avoids many of the disadvantages of...

...system and method of the present invention includes constructing a facility that portrays an urban **environment** in size, demand of public utilities, and other similar features. In one embodiment, detailed urban ...

...mass consumption, traffic behavior, safety and security at an urban level, air quality and other **environmental** concerns at an urban level, consumer behavior, business research, design and construction on an urban...

...A plan for a central information technology utility allows the capture and transmission of behavioral, **environmental**, and structural information on a real time basis from a broad range of urban components ...

...invention permits the advanced study, on an urban scale, of various issues that affect urban **environments**. Many unanswered questions which have heretofore not been studied and researched on an urban scale can be

SPECIFICATIONS IN RETAIL PATENTS 31, 32, AND 34...

...buy their goods. I personally think this could revolutionize shopping in a (C mall type **environment** . About DestiNY USA DestiNY USA is the 21 century's first city of tomorrow. A...

...up on the banks of Lake Onondaga, NY--all within the world's largest domed **environment** . By developing and deploying new technologies in energy, public safety, design, transportation and entertainment, DestiNY ...

Claim

... of the design and construction of an urban sized facility; and constructing a integrated controlled **environment** and providing appropriate information technology in the facility for the collection and analysis of data...

...of solutions for the issues that affect urban communities and the nation.

3. A controlled **environment** comprising an integrated urban scale replica of a city, comprising: means for attracting an urban scale statistically random population; means for controlling all activities and **environmental** events in the urban replica; means for measuring and monitoring all activities, phenomena and structures...

16/3,K/7 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01346498 \*\*Image available\*\*

**GAME THEORETIC PRIORITIZATION SCHEME FOR MOBILE AD HOC NETWORKS PERMITTING HIERARCHICAL DEFERENCE**  
**SYSTEME D'ETABLISSEMENT DE PRIORITES THEORIQUES DES JEUX POUR RESEAU AD HOC MOBILES PERMETTANT UNE DEFERENCE HIERARCHIQUE**

Patent Applicant/Inventor:

HOFFBERG Steven, 29 Buckout Road, West Harrison, New York 10604, US, US  
(Residence), US (Nationality), (Designated for all)

Legal Representative:

HOFFBERG Steven M (agent), Milde & Hoffberg LLP, 10 Bank Street, Suite 460, White Plains, New York 10606, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200629297 A2-A3 20060316 (WO 0629297)  
Application: WO 2005US32113 20050909 (PCT/WO US2005032113)  
Priority Application: US 2004609070 20040910; US 20045460 20041206

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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KM KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL  
PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU  
ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
PL PT RO SE SI SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 99696

Fulltext Availability:



## Detailed Description

### Detailed Description

- ... communications of market information and bids. Thus, attempts at ascertaining a market price for non-**commodity** goods can be subject to substantial inefficiencies, which reduce any potential gains by market pricing. Further, while Cihark@tpricinamight be considered "fair".
- it...
- ... a number of factors are considered. In order to sell large quantities of a perishable **commodity** in a short period of time, the descending price auctions are often preferred. For example...
- ... derivation of the name), while the U.S. Government uses this form to sell its **financial instruments**. The format of a traditional Dutch auction encourages early bidders to bid up to their "private..."
- ... days. In systems where the transaction volume exceeds these scales, for example in stock and **commodity** exchanges, which can accommodate large numbers of transactions per second involving the same issue... as an addendum-based transaction. The processing of a debit-based transaction generally occurs by **electronic funds transfer (EFT)** or by financial electronic data interchange (FEDI). The processing of an 3...6,065,675 (05/23/2000, Processing system and method for a heterogeneous electronic cash **environment**); 6,072,870 (06/06/2000, 10 System, method and article of manufacture for... lowest selected. In a combinatorial supply auction, a plurality of buyers each seek a divisible **commodity**, and each bids its best price. The bidders with the combination of prices which is maximum is selected. In a **commodity** market, there are a plurality of buyers and sellers, so the auction is more complex...
- ... limiting factor,  
DERIVATIVES, HEDGES, FUTURES AND INSURANCE  
In a market economy, the liquidity of the **commodity** is typically such that the gap between bid and ask is small enough that each...
- ... 30 least a competitive market for arbitrage. The arbitrage may be either in the **commodity**, or options, derivatives, futures, or the like.
- 45 .....
- i R I 4" @ ir" El' rU...
- ... mobile ad hoc networks is accounting for mobility of nodes and unreliability of communications. In **commodities** markets, one option is insurance of the underlying **commodity** and its production. The analogy in communications resource markets focuses on communications is the reliability... supply function and a network demand function, liquidity estimate and bid-ask gap for its **environment**, and its own subjective risk tolerance, if separately reported; the impact of nodes...
- ... non-compliant nodes are either excluded from the network or at least labeled. While an **automated** clearinghouse which periodically ensures nodal compliance is preferred, a human discretion clearinghouse, for example presented...
- ... inefficient. Since this extension is driven by the cellular network operator, a suitable return on **investment** is mandated.  
  
Many analyses and studies have concluded that voluntary ad hoc networks are efficient... 359,571 (Endo, et al., March 19, 2002, Broadcasting type information providing system and travel **environment** information collecting device); 6,313,801 (Furst, et al., January 8, 2002...)
- ... well known, and indeed navigational purposes were prime motivators for

etc.) and other circumstances surrounding the vehicle. Other vehicles and obstructions...

...This standard is an extension of IEEE 802.11 technology into the high-speed vehicle **environment**. It contains the information necessary to explain the difference between IEEE 802.11 and...

...ISO TC204 WG15 Committee Of Japan TICS/DSRC - DSRC Application Layer High

Data Rate mobile **environment**

ASTM E2158-01 - Standard Specification for Dedicated Short Range Communication

(DSRC) Physical Layer Using Microwave...communications devices. Event detectors, such as police radar and laser (LIDAR) speed detectors, traffic and **weather** condition detectors, road - 168 ....

-ivers, etc.),

hazard debris, accidents, lee mud and rock slides, drunk...

...become slippery) under certain conditions. Some of these conditions may be detected, such as local **weather**, past precipitation, and the like. Indeed, recent road sand and salt may also be accounted...

...value. A signal type (e.g., band, SWS code, etc.

for a radar detector, temperature, **wind speed**, **wind direction**, barometric pressure and trend, for a **weather** gatiore) may also be expressed. Accordingly, as set of orthogonal scalar values is tD rD...service unavailability may be --reduced. Likewise@-cellular-carriers-.m-allocate-their-infrastr-ucture-build-out sandcapital- **investments** where the return on **investment** will be maximum. On the other hand, cellular users in such regions may employ other...may also be integrated.

While low power or micropower design is desirable, in an automobile **environment**, typically sufficient power is continuously available to support sophisticated and/or power hungry electronic devices...

...IO', 1 0", triangulation with fixed radio sources, such as FM radio and television stations, **environmental** markers and/or transponders, or the like. The location system may also be network based...

16/3,K/8 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01288479 \*\*Image available\*\*

**ELECTRONICALLY CONTROLLED ENGINE GENERATOR SET**

**ENSEMBLE GENERATEUR MOTEUR A COMMANDE ELECTRONIQUE**

Patent Applicant/Assignee:

BOREALIS TECHNICAL LIMITED, 23545 NW Skyline Blvd, North Plains, OR  
97133-9204, US, US (Residence), -- (Nationality), (For all designated  
states except: US)

Patent Applicant/Inventor:

EDELSON Jonathan Sidney, 23545 N.W. Skyline Boulevard, North Plains, OR  
97133-9204, US, US (Residence), US (Nationality), (Designated only for:  
US)

GELLER Rachel, 23545 NW Skyline BLVD, North Plains, OR 97133-9204, US, IL  
(Residence), IL (Nationality), (Designated only for: US)

Legal Representative:

BOREALIS TECHNICAL LIMITED (agent), Rodney T. Cox, Chairman and CEO,  
23545 NW Skyline Blvd, North Plains, OR 97133-9204, US,

Patent and Priority Information (Country, Number, Date):

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Priority Application: WO 2004US8974 20040322  
Parent Application/Grant:  
Related by Continuation to: US 2000675082 20000928 (CIP); US 200310  
20031128 (CIP); US 2002132936 20020426 (CIP)  
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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
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Fulltext Availability:  
Detailed Description

#### Detailed Description

... a great amount of inertial energy is lost. This results in a waste of energy, **invested** in regaining the inertial energy, when the engine is restarted. Third, no currently available energy...of the present invention is unsuitable, one may consider a wind turbine, in which the **wind** blows **weather** **power** is being consumed or not. Similarly, a standard twin shaft gas turbine engine, in which...

...system may control system rate of speed change, as well as system speed. The power **electronic** control system may include **predictive** capability to anticipate future power requirements, and to select power output levels accordingly. The generator...

...benefits of the present invention are not limited only to these examples. In times when **environment** issues are in the interest of both the public and the legislator, cleaner and more...

16/3,X/9 (Item 8 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01213391

#### ENHANCED PARIMUTUEL WAGERING PARI DU TYPE PARI MUTUEL AMELIORE

Patent Applicant/Assignee:  
LONGITUDE INC, 2 Hudson Place, Hoboken, NJ 07030, US, US (Residence), US  
(Nationality), (For all designated states except: US)  
Patent Applicant/Inventor:  
LANGE Jeffrey, 3 East 84th Street, Apt. 3, New York, NY 10028, US, US  
(Residence), US (Nationality), (Designated only for: US)  
BARON Kenneth Charles, 51 West 86th Street, Apt. 602, New York, NY 10024,  
US, US (Residence), US (Nationality), (Designated only for: US)  
WALDEN Charles, 43 Glenwood Road, Montclair, NJ 07043, US, US (Residence)  
, US (Nationality), (Designated only for: US)  
HARTE Marcus, 389 Garretson Road, Bridgewater, NJ 08807, US, US  
(Residence), IE (Nationality), (Designated only for: US)

Legal Representative:

WEISS Charles A (agent), Kenyon & Kenyon, One Broadway, New York, NY  
10004, US

Patent and Priority Information (Country, Number, Date):

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Application: WO 2004US25434 20040806 (PCT/WO US2004025434)  
Priority Application: US 2003640656 20030813

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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 182513

Fulltext Availability:

Detailed Description

Detailed Description

- ... invention is the ability to provide diversification of credit risk among all the traders who **invest** in a group of DBAR contingent claims. In such embodiments, traders make **investments** (in the units of value as defined for the group) in a common distribution of...
- ...a given state is determined to have occurred. In preferred embodiments, all traders, through their **investments** in defined states for a group of contingent claims, place these **invested** amounts with a central exchange or intermediary which, for each trading period, pays the returns to successful **investments** from the losses on unsuccessful **investments**. In such embodiments, a given trader has all the other traders in the exchange as...
- ...inherent in leveraged transactions. First, a preferred form of DBAR contingent claim entails limited liability **investing**. **Investment** liability is limited in these embodiments in the sense that the maximum amount a trader can lose is the amount **invested**. In this respect, the limited liability feature is similar to that of a long...markets. By contrast, a short option position in traditional markets represents a potentially unlimited liability. **investment** since the downside exposure can readily exceed the option premium and is, in theory, unbounded...
- ...stock price depreciates in one month; and  
\$100 has been invested in the appreciate state, and \$95 in the depreciate state.
- 52 If a trader then **invests** \$1 in the appreciate state, if the stock in fact appreciates in the month, then...
- ...a payout of \$1.9406 (=196/101) -- a return of \$.9406 plus the original \$1 **investment** (ignoring, for the purpose of simplicity in this illustration, a transaction fee). If, before the close of the trading period the trader desires effectively to "sell" his **investment** in the appreciate state, he has two choices. He could sell the **investment** to a third party, which would necessitate crossing of a bid and an offer in...

#### 6.4 Digital Option Strips

Traders in the derivatives markets commonly...

- ...equal to the ratios specified by the trader. For example, a trader may desire to **invest** in a strip consisting of the 50, 60, 70, and 80 digital call options on...previously disclosed and described in detail, can be used dynamically to reallocate the trader's **investments** across the states over which these options are in the money (50 and above, and ...
  - ...1:2. As previously disclosed, the multistate allocation steps may be performed - R70each time new **investments** are added during the trading period, and a final multistate allocation may be performed after...
  - ...exchange using DBAR methods and systems of the present invention, traders are able to make **investments** in DBAR contingent claims. which correspond to purchases of digital options. Since DBAR methods are...
  - ...traditional markets, the act of selling a digital option, spread, or strip means that the **investor** (in the case of a sale, a seller) receives the cost of the option, or...
  - ...or out of the money. Thus, if the option expires out of the money, the **investor** /seller's profit is the premium. Should the option expire in the money, however, the **investor** /seller incurs a net liability-equal to the digital option payout less the premium received.
- In this situation, the **investor** /seller's net loss is the payout less the premium received for selling the option...
- ...an interface which displays bids and offers and therefore, by design, allows users to make **investments** in sets of DBAR contingent claims whose P&L scenarios are comparable to those from...

16/3,K/10 (Item 9 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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01152167 \*\*Image available\*\*

#### NETWORKED WASTE PROCESSING APPARATUS APPAREIL DE TRAITEMENT DE DECHETS EN RESEAU

Patent Applicant/Assignee:

ITRASH INC, 2 Park Avenue, New York, NY 10016, US, US (Residence), US  
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

WAGNER Frederico, Rua Bahia, 1135 2nd Floor, CEP-01244-001 Sao Paulo, SP, BR, BR (Residence), BR (Nationality), (Designated only for: US)  
ZSIGMOND Fabio, Estrada do Taguai, 400, CEP-06342-000 Carapicuiaba, SP, BR, BR (Residence), BR (Nationality), (Designated only for: US)  
YOSHIZAWA Geraldo Luiz, R. Luiz Migliano, 871 ap. 43C, CEP-05711-001 Sao Paulo, SP, BR, BR (Residence), BR (Nationality), (Designated only for: US)

Legal Representative:

ALTMAN Daniel E (et al) (agent), Knobbe, Martens, Olson & Bear, LLP, 14th floor, 2040 Main Street, Irvine, CA 92614, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200474964 A2-A3 20040902 (WO 0474964)  
Application: WO 2004IB1076 20040224 (PCT/WO IB04001076)  
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Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE  
SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 28310

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... including for example, the limited availability of disposal sites and the resultant contamination of the **environment**. In an effort to help alleviate some of the problems associated with discards, recycling has... and to study consumer behavior. Additionally, research may be done on ways to develop more **environmental** packaging, especially in regard to high volume items as identified by the present invention.

FIG...

...preferred level or method of shipping (same day, next day, two day, standard, lowest cost, **environmentally** friendly shipping)  
Express Buy Shipment Preference User preferred level or method of shipping for Express Buy option (same day, next day, two day, standard, lowest cost, **environmentally** friendly).

Generally, the Express Buy Shipment Preference will be a faster form of shipment than...

...attributes which a user may deem desirable, such as the manufacturer's treatment of the **environment**, treatment of employees, support of a given social cause, and the like. By way of...

...Names, Tax ID, and/or other identifier to which manufacturer donates money  
or other resources  
**Renewable** Resources % of **energy** utilized by manufacturer that comes from renewable resources  
1 5

The sample database 7016 stores...confirmation by phone or email, signature upon delivery, normal delivery, lower priced delivery for choosing "**Environment** -friendly Shipping Day," or expedited delivery. The "**Environment** -friendly Shipping Day" process is used to reduce traffic and pollution by planning deliveries within...

...may have specified that same day, next day, two day, standard, lowest cost, or most **environmentally** friendly shipping is to be used. At state 926, the order is delivered by...place an ad in a magazine explaining the problems that plastic packaging cause to the **environment**. The ad can provide a code that corresponds to a corresponding social mode, wherein products...

...as in a co-op. Manufacturers will have inventories leveled in accordance with sales **forecasts** and retailers can **electronically** purchase items as they select or bid on users' orders that they want to fulfill...unit, and the bill is charged to a designated credit card, debit account, or other **financial instrument**.

It should be understood that certain variations and modifications of this invention

Claim

... option selected from a group including one or more of day of week and an **environment** friendly shipping process.

54 The method as defined in Claim 47, wherein the user preference...

16/3,K/11 (Item 10 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00970400

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR RISK-MINIMIZATION AND  
MUTUAL INSURANCE RELATIONS IN METEOROLOGY DEPENDENT ACTIVITIES  
SYSTEME, PROCEDE ET PROGICIEL DE LIMITATION DES RISQUES ET DE RELATIONS  
D'ASSURANCE MUTUELLE DANS DES ACTIVITES DEPENDANTES DE LA METEOROLOGIE

Patent Applicant/Assignee:

ABB AB, S-721 78 Vasteras, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

LOF Per-Anders, Timragatan 84, S-162 62 Vallingby, SE, SE (Residence), SE (Nationality), (Designated only for: US)

GERTMAR Lars Gustaf Ingolf, Humlegatan 6, S-722 26 Vasteras, SE, SE (Residence), SE (Nationality), (Designated only for: US)

ANDREN Lars Anders Tommy, Olstavagen 11, S-740 82 Orsundsbro, SE, SE (Residence), SE (Nationality), (Designated only for: US)

LUNDQUIST Frans, Brantingsgatan 20, S-115 35 Stockholm, SE, SE (Residence), SE (Nationality), (Designated only for: US)

WIGERT Peter, Surbrunnsgatan 34, S-113 48 Stockholm, SE, SE (Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

AKERMAN Marten (et al) (agent), Albihs Malmo AB, Studentgatan 4, P.O. Box 4289, S-203 14 Malmo, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103588 A2 20021227 (WO 02103588)

Application: WO 2002IB1014 20020326 (PCT/WO IB0201014)

Priority Application: US 2001298142 20010615

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 26264

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR RISK-MINIMIZATION AND  
MUTUAL INSURANCE RELATIONS IN METEOROLOGY DEPENDENT ACTIVITIES  
... LIMITATION DES RISQUES ET DE RELATIONS D'ASSURANCE MUTUELLE DANS DES  
ACTIVITES DEPENDANTES DE LA METEOROLOGIE

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... INVENTION

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR RISK

MINIMIZATION AND MUTUAL INSURANCE RELATIONS IN **METEOROLOGY**  
DEPENDENT ACTIVITIES

CROSS-REFERENCE TO RELATED PATENT APPLICATIONS

[001] The present document contains subject matter...15, 200 1, entitled  
SYSTEM AND METHOD FOR

RISK-MINIMIZATION AND MUTAL INSURANCE RELATIONS IN

**METEOROLOGY** DEPEDNENT ACTIVITIES (Attorney Docket No. 208933US8PROV),  
the entire contents of which being incorporated herein by...

...to industrial and societal systems and methods whose performance is  
affected by a dependency on **meteorological** data, as well as a  
stochastic nature of variations in Earth's atmosphere- ...systems,  
methods and computer program product that aid in minimizing system  
performance risks due to **meteorological** influence for all systems, such  
as **renewable power production** facilities, that have a final product  
or service that is influenced by **meteorological** variation and  
**meteorological** prediction error.

DISCUSSION OF THE BACKGROUND

[003] Due to an inability to control **wind currents**, and a prevailing  
disbelief that **wind speeds** can be predicted accurately over any  
appreciable period of time, electricity from **wind power** systems is  
viewed by system operators and power exchanges as being an ...power  
producers to

2

comply with delivery contracts 100% of the time. The predictability of  
**meteorological** and oceanographic parameters varies strongly with  
conditions in these geophysical systems. Consequently, power provided  
from **renewable power production facilities** (**wind turbine**  
**facilities**, **tidal facilities**, **solar facilities** and the like) are  
at a disadvantage when it comes to trading power, since there Also, the  
impact of prediction errors on the **meteorology** dependent activities  
vary, thus further complicating the reliability of power from renewable  
sources, especially ones...

...wave, ocean currents, and tidal sources that include Production  
optimization; Maintenance scheduling; Transmission load; Energy trading;  
Capital **investment** costs; and Load shedding; Designation of flight  
routes for commercial airlines; Jet-stream position; Alternative  
routes; and Optimal Right path;  
a Airport operation and issuing of landing pennits in severe **weather**  
conditions to ...drying of hay; and  
Fertilizing periods; and  
e Transportation at sea to include: Avoiding severe **weather** at sea;  
Going in to harbor; Docking tankers with oil production platfonns; and  
Towing large...

...wind turbine blades.

3

[004] As recognized by the present inventors, a limitation with  
conventional **wind power** systems is that unless there is some  
physical media for storing the electrical power (actually...

...or the longer term power exchange, e.g., Nord Pool, due to variability  
of the **wind power**. Local storage media is expensive, as compared with  
other generation systems that are able to...

...predetermined amount of electrical power. Thus, conventional wisdom in  
the power industry is that the **wind power** systems will require  
substantially more capital to build ( on a per/kw output basis) than  
other systems, in part because the **wind power** systems are believed to  
either require a substantial local energy storage facility, or will  
suffer...

...source of electric power.



16/3,K/12 (Item 11 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00794493 \*\*Image available\*\*

**HYDROGEN/ELECTRIC ENERGY DISTRIBUTION SYSTEM**  
**SYSTEME DE DISTRIBUTION D'HYDROGENE/ENERGIE ELECTRIQUE**

Patent Applicant/Assignee:

GENERAL HYDROGEN CORPORATION, 555 West Hastings Street, Suite 700,  
Vancouver, British Columbia V6B 4N5, CA, CA (Residence), US  
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

ROUTTENBERG Michael, 1128 Quebec Street, Unit 604, Vancouver, British  
Columbia, CA, CA (Residence), CA (Nationality), (Designated only for:  
US)

Legal Representative:

KELBON Marcia S (agent), Christensen O'Connor Johnson & Kindness PLLC,  
Suite 2800, 1420 Fifth Avenue, Seattle, WA 98101, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200128017 A2-A3 20010419 (WO 0128017)

Application: WO 2000US41123 20001010 (PCT/WO US0041123)

Priority Application: US 99159023 19991012; US 2000492934 20000127

Parent Application/Grant:

Related by Continuation to: US 2000492934 20000127 (CON)

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

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Publication Language: English

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Fulltext Word Count: 16296

Fulltext Availability:

Detailed Description

Detailed Description

... Need For Alternate Transportation Technologies

Fossil fuel combustion has been chiefly responsible for several adverse  
**environmental** impacts: first poor local air quality, then regional  
acidification and, finally, global increases in atmospheric...

...transportation sector's large consumption of petroleum based fuels  
coupled with growing concern over the **environmental** and geopolitical  
consequences of heavy oil use, are major driving forces propelling the  
development of...their operation.

Most industry experts agree that FCVs provide the long-term solution to  
the **environmental** and geopolitical problems associated with fossil  
fuels. FCVs solve the **environmental** problems by eliminating all harmful  
emissions and answer geopolitical concerns because hydrogen does not  
depend...

...it re-introduces some of the problems that FCVs were designed to  
eliminate - namely the **environmental** and geopolitical concerns  
associated with the utilization of oil. While the use of methanol,  
instead...

...the cost of reintroducing one of the problems that FCEVs were designed to eliminate - namely **environmental** concerns associated with the utilization of hydrocarbon fuels.

The second approach to a decentralized, direct...economical to operate;  
2 . the ability to select electricity that has been produced in an **environmentally** friendly manner,  
3 . the capacity of parties other than the local utility to sell electricity...

...to all classes of customers. According to the California Public Utilities Commission (CPUC), which regulates **investor** -owned electric utilities in California, the high cost of electricity is the reason behind deregulation...

...opening them to competition. These regulated monopolies, otherwise known as the local electric utilities or **investor** -owned utilities, include Pacific Gas & Electric (PG&E ; San Diego Gas & Electric (SDG&E); and Southern California Edison (SCE).

In such unbundled **environment** , vertically integrated Power Utilities are split into separate units, each of which has a separate...

...independent power producers or "Generators" exist. Some Generators may produce electricity in a sustainable or **environmentally** friendly manner. Electricity produced from small-scale hydroelectric dams, or through means employing **wind** , solar or geothermal **energy** is considered **environmentally** friendly. Such producers are referred to herein as "Green Generators", and are said to be...

...market, electrical power may be bought and sold on the open market like any other **commodity** . Such "electricity trading" is conducted through an exchange, which operates in a similar fashion to a **commodities** exchange.

This Power Exchange ("Px") is used by Scheduling Coordinators, Electricity Service Providers and electricity traded through the Power Exchange. The Power Exchange functions much like a **commodities** market, creating a spot market for electricity and settling trades between counter-parties. The Power Exchange, like other **commodities** markets, is open to market speculators.

h. Conventional Schemes For Vehicles Using, Alternative Fuels  
Barclay...eliminated throughout the energy chain.

Because the Port and Port Controller are essentially solid state **electronic** devices, it is **expected** that they would be mass produced at costs sufficiently low to make them readily affordable...refueling, conventional

vii I I I

gaseous or liquid fuels are always liberated into the **environment** . Gaseous fuels such as methane, dissipate quickly and contribute to atmospheric pollution. Spillage of liquid...

...that a consumer may specifically choose "Green Electrons." Likewise, the RFCV, operating in such an **environment** may specifically choose "Green Electricity. " This ensures that the FCV does indeed result in zero...for example, Fossil Fuel Based Electricity Generators 102. While Green Electricity Generators are preferred for **environmental** concerns, both types of electricity sources are within the scope of the present invention.

In...

...the maximum price it will pay for energy and whether "Green Electricity" (electricity produced from **environmentally** friendly sustainable sources) is required. It utilizes this information to create an energy purchase request...the communication and control functions of the Port Controller might not be required in certain **environments** and circumstances. For example, individual vehicle owners or operators may choose to transfer power to...

16/3,K/13 (Item 12 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00781777 \*\*Image available\*\*

**METHOD FOR DEVELOPING A SYSTEM FOR IDENTIFYING THE PRESENCE AND ORIENTATION OF AN OBJECT IN A VEHICLE**

**PROCEDE DE DEVELOPPEMENT D'UN SYSTEME D'IDENTIFICATION PERMETTANT DE DETECTER LA PRESENCE ET L'ORIENTATION D'UN OBJET DANS UN VEHICULE**

Patent Applicant/Assignee:

AUTOMOTIVE TECHNOLOGIES INTERNATIONAL INC, P.O. Box 8, Denville, NJ 07834  
, US, US (Residence), US (Nationality)

Inventor(s):

BREED David S, 48 Hillcrest Road, Boonton Township, NJ 07005, US,  
JOHNSON Wendell C, 11315 Rancho Bernardo Road, San Diego, CA 92127, US,  
DUVALL Wilbur E, 57 Northwoods Drive, Kimberling City, MO 65686, US,  
MORIN Jeffrey L, 1504 Moran Avenue, Lincoln Park, MI 48146, US,  
XU Kunhong, 2792 Broadmore Drive, Rochester Hills, MI 48309, US,  
VARGA Andrew J, 29292 Marvin, Farmington Hills, MI 48331, US,

Legal Representative:

ROFFE Brian (agent), 366 Longacre Avenue, Woodmere, NY 11598-2417, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200114910 A2-A3 20010301 (WO 0114910)

Application: WO 2000US14903 20000530 (PCT/WO US0014903)

Priority Application: US 99136163 19990527; US 99382406 19990824; US  
99474147 19991229

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

DE GB JP SE

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 29200

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... neural networks. is not mentioned for use in monitoring the interior passenger compartment or exterior **environments** of the vehicle. Thus. the methods used to adapt such systems to a vehicle...case of a neural network. the particular network architecture chosen. (3) the process by which **environmental** influences are incorporated into the system. and (4) any process for determining the pre-processing...accuracy. typically several hundred thousand vectors.  
The collection of data in the presence of varying **environmental** conditions such as with thermal gradients.

The photographing of each data setup.

The makeup of the...In addition to all of the variations in occupancy states. it is important to consider **environmental** effects during the data collection. Thermal gradients or thermal instabilities are

particular important since...lotion seat or rear seat  
Temperature

Temperature gradient - stable

Temperature turbulence - heater and air conditioner

Wind turbulence - High speed travel with windows open, top down etc

14. Collect -1 00.000 ectors of Independent...electronic control module  
that is part of the system is located in a generalN the same **environment**  
as the transducers. another method of determining the temperature is  
available. This method utilizes a...

...have characteristics that their resistance changes in a known manner  
with temperature. It can be **expected** that the **electronic** module will  
generalIN be at a higher temperature than the surrounding **environment** .  
however, the temperature difference is a known and predictable amount.  
Thus, a reasonably good estimation...can bias system and drive the  
system more toward memorization and away from generalization.

9. **Environmental** factors. An evaluation can be made of the beneficial  
effects of using varying **environmental** influences during data  
collection on the accuracN of the SNrStem using neural networks along  
with...4 %

Rearward Facing Child Seat 27 %

Rearward Facing Infant Seat 29 %

Table 4 Distribution of **Environmental** Conditions

**Environmental** Condition Representation

Ambient 56 @,/o

Static Heat (Solar Lamp) 25 %

Dvnamic Heat (Car Heat) 13...

...11 %

Rearward Faciniz Child Seat 38 %

Rearward Facing Infant Seat 40 %

Table 8 Distribution of **Environmental** Conditions

'i **Environmental** Condition

Representation

Ambient 63 %

IStatic Heat (Solar Lamp) 13 %

Dvnamic Heat (Car Heat) 1 2...

...Rate 92.7 0/6

1 5

The network performance has been further anakzed b

**investigating** the success rates against subsets of' the independent  
test set. The success rate against the...

...Child Seat 96.9 %

93.0 %

Out-of-Position Human,/FFCS

Table 12 Performance per **Environmental** Conditions Subset

**Environmental** Condition Independent Test

Ambient 95.4 0/(

LonE Term Heat (Lamp Heat)

95.2

Sort...sections offour signals.

Three methods ot'nor-malization of the individual 1,ectors have been  
**investigated** .

a. Normalization using the hiphest and lowest  
alue ofthe entire ector (baseline).

b. Normalization of...the signal resolution to bring out these peaks.

A further study could be performed to **investigate** combining a lower  
threshold with fixed range normalization. using a range less than full  
scale...

Claim

... human beings.

27 The method of claim 25. further comprising the step of:  
varying the **environmental** conditions inside the vehicle while data is  
being collected.

.me step comprises

28 The method of claim 27. wherein said **environmental** conditions Nan'  
the step of creating thermal gradients within the passenger compartment.

29 The method...

16/3,K/14 (Item 13 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00752031 \*\*Image available\*\*

**ADVANCED SHIP AUTOPILOT SYSTEM**

**SYSTEME PILOTAGE AUTOMATIQUE AMELIORE POUR NAVIRE**

Patent Applicant/Assignee:

CANADIAN SPACE AGENCY, 6767 route de l'Aeroport, Saint-Hubert, Quebec J3Y  
8Y9, CA, CA (Residence), CA (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

EL-TAHAN Mona, 18 Wedgeport Road, St. John's, Newfoundland A1A 5A3, CA,  
CA (Residence), CA (Nationality), (Designated only for: US)

EL-TAHAN Hussein, 18 Wedgeport Road, St. John's, Newfoundland A1A 5A3, CA  
, CA (Residence), CA (Nationality), (Designated only for: US)

TUER Kevin, 243 Woods Street, Stratford, Ontario N5A 7T4, CA, CA  
(Residence), CA (Nationality), (Designated only for: US)

ROSSI Mauro, Apartment 5, 328 Regina Street North, Waterloo, Ontario N2J  
3B7, CA, CA (Residence), CA (Nationality), (Designated only for: US)

Legal Representative:

FREEDMAN Gordon, Freedman & Associates, 117 Centrepoint Drive, Suite 350,  
Nepean, Ontario K2G 5X3, CA

Patent and Priority Information (Country, Number, Date):

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Application: WO 2000CA448 20000420 (PCT/WO CA0000448)

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prior to 2004)

AE CA GB NO US

Publication Language: English

Filing Language: English

Fulltext Word Count: 13019

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... to I 0 maintain a heading (longitudinal axis) of a ship in a  
predefined direction. **Environmental** disturbances, such as **wind** and  
water **currents** , may cause the ship to move in a direction that is  
several degrees off its...

...performing prediction can be implemented resulting in excellent control  
results even in substantially non-linear **environments** such as ship  
navigation and control.

#### Summary of the Invention

The ASAS is an...determined from a global positioning system;

Heading sensed from ship's Gyro;

I 0 0 **Wind speed** and direction as sensed;

Vessel's speed through water as determined from a speed log...model into a GPC compliant model is not obvious.

I 0 Two recasting techniques were **investigated**. In both techniques, at every time step  $t$ , the SPS was used to generate an...

...N,+1) ...  $e(t + N2-1) e(t+N2)]$ ".

Using the classical GPC implementation, previous **investigations** into course keeping control showed that the gains in  $K$  typically exhibited an exponential behavior...of the error defined over the prediction horizon.

5 Several definitions for the error were **investigated**, but it was found that the following definition provided the best results. Suppose at time ...size. Once the SPS has generated the output file, it is read into the Matlab **environment** and the appropriate 15 terms are extracted and used to populate the  $G$  matrix...

...language Matlab. This language allows integration of computation,

24

visualization, and programming in a single **environment**. Both the GUI and the controller read the output file of the SPS and, when...

...neural network component. The synaptic weights for this neural network help model several hydrodynamic and **environmental** effects, so for different **environmental** conditions, different weights must be used.

Currently, the weights are stored in a file and...bulk carrier. This study examined the effect of ship speed, ship heading, reference trajectory characteristics, **environmental** disturbances, and operational scenarios. Another SPS executable was utilized to update the control structure when...

#### Claim

... method according to claim 3 wherein the control law is updated based on changes in **environmental** conditions and based on an accuracy of past predictions.

5 A method of navigation control...method according to claim 30 wherein the control law is updated based on changes in **environmental** conditions and based on an accuracy of past predictions.

40

/27

s) Environ

Environme

**Environmental**

Condition

Module

Waves

t

Longitude and Latitude

Water Depth

Ship's Heading Ship

Rudder Angle

,@-romiler Speed and Pitch Module

46 Ship's

, **Wind Speed** & Direction DGPS

Depth

GI'

Ruddei d

Main Engine

18/3,K/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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0012921616 - Drawing available  
WPI ACC NO: 2002-674051/200272  
Related WPI Acc No: 2002-557777; 2002-665387; 2002-665494; 2003-661619  
XRPX Acc No: N2002-532967

**Electrical power trading system for windmill based power plants, has processor that implements offer acceptance mechanism to determine whether offer price corresponding to required power meets or exceeds preset value**

Patent Assignee: ABB AB (ALLM)

Inventor: ANDREN L A T ; GERTMAR L G I ; LOF K P; LOF P K

Patent Family (4 patents, 99 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
US 20020103745	A1	20020801	US 2000749999	A	20001229	200272 B
			US 2001881001	A	20010615	
WO 2002103879	A1	20021227	WO 2002IB732	A	20020305	200302 E
EP 1396060	A1	20040310	EP 2002702651	A	20020305	200418 E
			WO 2002IB732	A	20020305	
AU 2002236154	A1	20030102	AU 2002236154	A	20020305	200452 E

Priority Applications (no., kind, date): US 2000749999 A 20001229; US 2001881001 A 20010615

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
US 20020103745	A1	EN	65	39	C-I-P of application US 2000749999
WO 2002103879	A1	EN			
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW					
Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW					
EP 1396060	A1	EN			PCT Application WO 2002IB732 Based on OPI patent WO 2002103879
Regional Designated States,Original: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
AU 2002236154	A1	EN			Based on OPI patent WO 2002103879

Inventor: ANDREN L A T ...

... GERTMAR L G I ...  
... LOF P K

**Alerting Abstract** ...The system integrates power distribution from renewable source e.g. windfarm , with other power from conventional sources...

#### Original Publication Data by Authority

Inventor name & address:

... GERTMAR L G I ...

... ANDREN L A T ...

... GERTMAR, Lars, Gustaf, Ingolf ...

... ANDREN, Lars, Anders, Tommy ...

... Lof, Per-Anders Kristian ...

... Gertmar, Lars Gustaf Ingolf ...  
 ... Andren, Lars Anders Tommy ...  
 ... GERTMAR, Lars, Gustaf, Ingolf ...  
 ... ANDREN, Lars, Anders, Tommy

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 DIALOG(R)File 350:Derwent WPIX  
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0010927892 - Drawing available  
 WPI ACC NO: 2001-549877/200161  
 XRPX Acc No: N2001-408485

**Electric power system based on renewable energy sources uses power plants, each with AC machine, converter rectifier and HVDC transmission line with inverter feeding distribution network transformer**

Patent Assignee: ABB AB (ALLM)

Inventor: ASPLUND G; FRANK H; GERTMAR L ; ROTHMAN B; SEGERQVIST I

**Patent Family** (4 patents, 92 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2001052379	A2	20010719	WO 2000SE2616	A	20001221	200161 B
SE 199904740	A	20010624	SE 19994740	A	19991223	200161 E
AU 200124204	A	20010724	AU 200124204	A	20001221	200166 E
SE 518121	C2	20020827	SE 19994740	A	19991223	200263 E

Priority Applications (no., kind, date): SE 19994740 A 19991223

#### Patent Details

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WO 2001052379	A2	EN	37	7	

National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BY  
 BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN  
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
 PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Regional Designated States,Original: AT BE CH CY DE DK EA ES FI FR GB GH  
 GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

SE 199904740 A SV

AU 200124204 A EN Based on OPI patent WO 2001052379

SE 518121 C2 SV

...Inventor: GERTMAR L

**Alerting Abstract** ...a block diagram illustrating the basic design of the high-voltage series connected DC connection wind farm .

#### Original Publication Data by Authority

Inventor name & address:

... GERTMAR L ...

... GERTMAR L ...

... GERTMAR, Lars

18/3,K/3 (Item 3 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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0010877016 - Drawing available  
WPI ACC NO: 2001-496709/200154  
XRPX Acc No: N2001-368070

**Use of high voltage direct current HVDC insulating cables in winding arrangements for AC machines or transformers enabling e.g. series connection of discreet wind generators in wind farm**

Patent Assignee: ABB AB (ALLM)

Inventor: ASPLUND G; FRANK H; GERTMAR L ; ROTHMAN B; SEGERQVIST I

**Patent Family** (3 patents, 92 countries)

Patent			Application			
Number	Kind	Date	Number	Kind	Date	Update
WO 2001048892	A1	20010705	WO 2000SE2617	A	20001221	200154 B
SE 199904753	A	20010624	SE 19994753	A	19991223	200154 E
AU 200122452	A	20010709	AU 200122452	A	20001221	200164 E

Priority Applications (no., kind, date): SE 19994753 A 19991223

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
WO 2001048892	A1	EN	38	1		

National Designated States, Original: AE AG AL AM AT AU AZ BA BB BG BR BY  
BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN  
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ  
PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
Regional Designated States, Original: AT BE CH CY DE DK EA ES FI FR GB GH  
GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW  
SE 199904753 A SV  
AU 200122452 A EN Based on OPI patent WO 2001048892

...for AC machines or transformers enabling e.g. series connection of  
discreet wind generators in wind farm  
...Inventor: GERTMAR L

**Alerting Abstract** ...to remote consumers and the use of series connected  
electricity generating machines e.g. on wind farms .

#### Original Publication Data by Authority

Inventor name & address:

... GERTMAR L ...  
... GERTMAR, Lars

18/3,K/4 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
(c) 2007 WIPO/Thomson. All rts. reserv.

01483572 \*\*Image available\*\*

**WIND MILL POWER FLOW CONTROL WITH DUMP LOAD AND POWER CONVERTER  
REGULATION DE DEBIT DE PUISSANCE D'EOLIENNE A CHARGE DE LISSAGE ET  
CONVERTISSEUR D'ENERGIE**

Patent Applicant/Assignee:

ABB RESEARCH LTD, Affolternstrasse 52, CH-8050 Zurich, CH, CH (Residence)  
, CH (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GERTMAR Lars , Humlegatan 6, S-722 26 Vasteras, SE, SE (Residence), SE  
(Nationality),

CHRISTENSEN Hans Christian, Fordresgaardvej 25, D-2400 Copenhagen, DK, DK  
(Residence), DK (Nationality),

NIELSEN Erik Kolby, Dyrugaardvaenget 6, DK-5250 Odense, DK, DK  
(Residence), DK (Nationality),

NIIRANEN Jouko, Kylanevantie 2A4, FI-00320 Helsinki, FI, FI (Residence),  
FI (Nationality),

JOHANSSON Stefan, Ankargatan 8, S-723 48 Vasteras, SE, SE (Residence), SE  
 (Nationality),  
 WRAEE Leif-Erik, Krosselvaenget 17, DK-5690 Tommerup, DK, DK (Residence),  
 DK (Nationality),  
 Legal Representative:  
 ABB AB (agent), Legal Affairs and Compliance/Intellectual Property,  
 Forskargrand 7, S-721 78 Vasteras, SE  
 Patent and Priority Information (Country, Number, Date):  
 Patent: WO 200727141 A1 20070308 (WO 0727141)  
 Application: WO 2006SE999 20060830 (PCT/WO SE2006000999)  
 Priority Application: US 2005712125 20050830  
 Designated States:  
 (All protection types applied unless otherwise stated - for applications  
 2004+)  
 AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
 DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP  
 KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MY MZ NA NG NI NO  
 NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SV SY TJ TM TN TR TT TZ  
 UA UG US UZ VC VN ZA ZM ZW  
 (EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU LV MC NL  
 PL PT RO SE SI SK TR  
 (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
 (AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
 (EA) AM AZ BY KG KZ MD RU TJ TM  
 Publication Language: English  
 Filing Language: English  
 Fulltext Word Count: 7442  
 Patent Applicant/Inventor:  
**GERTMAR Lars**,  
 Fulltext Availability:  
 Detailed Description

#### Detailed Description

... extent, they are connected via collection and transmission, C&T,  
 networks especially made for a **wind farm** and then more or less  
 without other loads, i.e., as another type of extremities...operating  
 stage. So, system operators have put requirements on reactive power from  
 wind turbines and **wind farms** to organize the disposition of reactive  
 reserves for proper control of system voltage.

Regarding wind...

18/3,K/5 (Item 2 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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01254308 \*\*Image available\*\*

#### ELECTRIC POWER NETWORK

#### RESEAU D'ENERGIE ELECTRIQUE

Patent Applicant/Assignee:

ABB RESEARCH LTD, Affolternstrasse 52, CH-8050 ZURICH, CH, CH (Residence)  
 , CH (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

CHRISTENSEN Hans Christian, Sporemagervej 2, DK-2400 COPENHAGEN, DK, DK  
 (Residence), DK (Nationality), (Designated only for: US)

**GERTMAR Lars**, Humlegatan 6, S-SE-722 26 VASTERAS, SE, SE (Residence),  
 SE (Nationality), (Designated only for: US)

LINDAHL Sture, Gasslingavagen 5B, S-SE-227 35 LUND, SE, SE (Residence),  
 SE (Nationality), (Designated only for: US)

MANTERE Juhani, Nurmitie 3, FIN-SF-04300 TUUSULA, FI, FI (Residence), FI  
 (Nationality), (Designated only for: US)

KOLDBY NIELSEN Erik, Dyrupgaardvaenget 6, DK-5250 ODENSE, DK, DK  
 (Residence), DK (Nationality), (Designated only for: US)

WRAAE Leif-Erik, Krosselvaenget 17, DK-5690 TOMMERUP, DK, DK (Residence),

DK (Nationality), (Designated only for: US)  
Legal Representative:  
ABB AB (agent), Legal & Compliance/Intellectual Property, S-SE-721 78  
VASTERAS, SE,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200562438 A1 20050707 (WO 0562438)  
Application: WO 2004SE2003 20041222 (PCT/WO SE04002003)  
Priority Application: SE 20033574 20031223  
Designated States:  
(All protection types applied unless otherwise stated - for applications  
2004+)  
AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT LU MC NL PL  
PT RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 8224

Patent Applicant/Inventor:  
... Designated only for: US)  
**GERTMAR Lars** ,  
Fulltext Availability:  
Detailed Description

Detailed Description  
... controllable in a fault condition.

There are regulations on national levels that demands for a **wind farm**  
to stay connected with at least some reactive and active power input to  
the grid...

...and to resume power production when faults are cleared. Further there  
are international specifications of **wind farms** connected to a  
transmission network.

These specifications specify that offshore **wind farms** - like other  
major production plants - should not lose stability or trip at  
short-circuits in...

18/3,K/6 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00977419 \*\*Image available\*\*  
**COORDINATING RENEWABLE POWER PRODUCTION WITH A STANDARD POWER GRID**  
**COORDINATION DE LA PRODUCTION D'ENERGIE RENOUVELABLE AU MOYEN D'UN RESEAU**  
**ELECTRIQUE STANDARD**  
Patent Applicant/Assignee:  
ABB AB, S-721 78 Vasteras, SE, SE (Residence), SE (Nationality), (For all  
designated states except: US)  
Patent Applicant/Inventor:  
**LOF Kristian Per** -Anders, Timragatan 84, S-162 62 Vallingby, SE, SE  
(Residence), SE (Nationality), (Designated only for: US)  
**GERTMAR Lars** Gustaf Ingolf, Humlegatan 6, S-722 26 Vastera, SE, SE  
(Residence), SE (Nationality), (Designated only for: US)  
Legal Representative:  
AKERMAN Marten (et al) (agent), Albihns Malmo AB, Studentgatan 4, P.O.  
Box 4289, S-203 14 Malmo, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200307455 A1 20030123 (WO 0307455)  
Application: WO 200218733 20020305 (PCT/WO IB0200733)  
Priority Application: US 2001900874 20010710

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 22987

Patent Applicant/Inventor:

LOF Kristian Per -Anders...

...Designated only for: US)

GERTMAR Lars Gustaf Ingolf...

Fulltext Availability:

Detailed Description

Detailed Description

... theme is now to group a number of wind turbines together so as to form **wind farms** that can generate up to tens of megawatts via the aggregation of smaller plants that...the Deregulation Swedish Market", First International Workshop on Feasibility of HVDC Transmission Networks for Offshore **Wind Farms**, March 30-31, 2001. Also see, e.g., an interview with Eltra's CEO, Georg...start-up procedures, maintenance, fault handling based on large short-circuit power, etc.

Sea-based **wind farms** have recently been commercialized. Several of these are equipped with AC-to-AC converters inside a **wind farm** to the grid.

When conventional wind power systems are connected in an AC multi-terminal...controller 105 calculates reference values which are sent to local computer-based controllers in the **wind farm** via signal communication well known to the man skilled in the art.

Figure 6 is...may be used), "the coactive converter", from a set of wind mills / a number of **wind farms** or other renewable facilities, via the C&T grid to the power grid. The coactive...disclosed herein provides novel and advantageous methods and mechanisms to operate and control wind turbines, **wind farms** and their co-operation with the electrical power grid and its stakeholders aiming at long...

18/3,K/7 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00970400

SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR RISK-MINIMIZATION AND  
MUTUAL INSURANCE RELATIONS IN METEOROLOGY DEPENDENT ACTIVITIES  
SYSTEME, PROCEDE ET PROGICIEL DE LIMITATION DES RISQUES ET DE RELATIONS  
D'ASSURANCE MUTUELLE DANS DES ACTIVITES DEPENDANTES DE LA METEOROLOGIE

Patent Applicant/Assignee:

ABB AB, S-721 78 Vasteras, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

**LOF Per** -Anders, Timragatan 84, S-162 62 Vallingby, SE, SE (Residence)  
, SE (Nationality), (Designated only for: US)  
**GERTMAR Lars** Gustaf Ingolf, Humlegatan 6, S-722 26 Vasteras, SE, SE  
(Residence), SE (Nationality), (Designated only for: US)  
**ANDREN Lars** Anders Tommy, Olstavagen 11, S-740 82 Orsundsbro, SE, SE  
(Residence), SE (Nationality), (Designated only for: US)  
**LUNDQUIST Frans** , Brantingsgatan 20, S-115 35 Stockholm, SE, SE  
(Residence), SE (Nationality), (Designated only for: US)  
**WIGERT Peter** , Surbrunnsgatan 34, S-113 48 Stockholm, SE, SE  
(Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

**AKERMAN Marten** (et al) (agent), Albihns Malmo AB, Studentgatan 4, P.O.  
Box 4289, S-203 14 Malmo, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103588 A2 20021227 (WO 02103588)  
Application: WO 2002IB1014 20020326 (PCT/WO IB0201014)  
Priority Application: US 2001298142 20010615

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 26264

Patent Applicant/Inventor:

**LOF Per** -Anders...  
...Designated only for: US)  
**GERTMAR Lars** Gustaf Ingolf...

...Designated only for: US)  
**ANDREN Lars** Anders Tommy...

...Designated only for: US)  
**LUNDQUIST Frans** ...

...Designated only for: US)  
**WIGERT Peter** ,

Fulltext Availability:

Detailed Description

Detailed Description

... risk to potential payoff, [0070] Figure 16 is a chart showing factors  
used in calculating **wind farm** risks in  
options trading and virtual energy storage operations;  
[0071] Figure 17 is a chart bilateral options  
market;  
[0074] Figure 20 is a chart showing a **wind farm** perspective in a  
power exchange  
options market operations;  
[0075] Figure 21 is a chart showing a **wind farm** perspective in a  
power exchange  
bilateral options market operations;  
[0076] Figure 22 is a chart...information 513, thermoelectric plants 515  
(or other type of electrical generation power plants), third party **wind**  
**farms** 517as well as a **wind farm** (which may be a single wind  
turbine) 503, which includes premier power facilities 505, shown...

power production unit will have a AW associated with it. So will each wind farm, as well as each region of the grid with wind farms attached to it. A...are known at many sites and are obtained in real time and updated while a wind farm is operated. The statistical analysis provides both a prediction of a value for the wind...flow field will be altered (block PI 03 in Figure 10) as a result of wind farm effects such as wake influences (e.g. Magnusson, 1996). Local flow field corrections may also...affected.

[00204] A first step is here summation of production from the generators in a wind farm I to obtain the wind farm energy production W1. For each probability level there will also be a possible deviation of wind farm energy production. A possible but not necessary scenario is that for a large deviation at...disclosed herein provides novel and advantageous methods and mechanisms to operate and control wind turbines, wind farms and their cooperation with the electrical power grid and its takeovers aiming at long term...

...and advantageous methods and mechanisms dependent on meteorological information for business activities around wind turbines, wind farms and their co-operation with the electrical power grid and its stakeholders aiming at long...

18/3,K/8 (Item 5 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00969791 \*\*Image available\*\*

METHOD FOR COORDINATION RENEWABLE POWER PRODUCTION WITH OTHER POWER PRODUCTION  
COORDINATION DE LA PRODUCTION D'ENERGIES RENOUVELABLES AVEC CELLE D'AUTRES ENERGIES

Patent Applicant/Assignee:

ABB AB, S-721 78 Vasteras, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

LOF Kristian Per -Anders, Timragatan 84, S-162 62 Vallingby, SE, SE (Residence), SE (Nationality), (Designated only for: US)

GERTMAR Lars Gustaf Ingolf, Humlegatan 6, S-722 26 Vastera, SE, SE (Residence), SE (Nationality), (Designated only for: US)

ANDREN Lars Anders Tommy, Olstavagen 11, S-740 82 Orsundsbro, SE, SE (Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

AKERMAN Marten (et al) (agent), Albihns Malmo AB, Studentgatan 4, P.O. Box 4289, S-203 14 Malmo, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 2002103879 A1 20021227 (WO 02103879)

Application: WO 20021B732 20020305 (PCT/WO IB0200732)

Priority Application: US 2001881001 20010615

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 29327

Patent Applicant/Inventor:  
LOF Kristian Per -Anders...

...Designated only for: US)  
GERTMAR Lars Gustaf Ingolf...  
...Designated only for: US)  
ANDREN Lars Anders Tommy...

Fulltext Availability:  
Detailed Description

#### Detailed Description

... Denmark established some rules regarding grid connections from the windmills, (e.g., Specifications for Connecting Wind Farms to the Transmission Network", ELTRA IIS ELT 0 1999-41 la.', as well as Swedish ...Recently there have been a number of wind power plants that have been erected at wind farms with constant-speed and/or variable-speed units connected to the same point in the...is the use of a co-active converter in connection with a number of different wind farms instead of just one co-active converter per wind production facility.

A further feature of...information 513, thermoelectric plants 515 (or other type of electrical generation power plants), third party wind farms 517 as well as a wind farm (which may be a 2 0 single wind turbine) 503, which includes premier power facilities...

...included in the premier power facilities 505, in an alternative embodiment. A description of the wind farm 503 including ...speed, in solar facilities the production variation is due to changes in sunlight exposure. Thus, "wind farm" or "wind turbine facility" is to be construed broadly to cover any renewable facility that term" stochastic variations such as wind farms, solar power or wave power units/farms, where the stochastic variations in power production are...

...facilities 505 and hydroelectric plant 511 (or alternatively thermoelectric plant 515 and/or third party wind farm 517) so as to make the electrical output from wind farm 503 a reliable source of electric power. The premier power facilities 505, in cooperation with while the premier power facilities 505 places the output waveform from the wind farm 503 in a suitable form for connection to the power grid, it also includes an...

...ability to provide reactive power to the grid at a position that is near the wind farm 503. As recognized by the present inventors, the longer term output power from the wind farm 503 may be made sufficiently predictable and reliable, in a business setting, such that units of the electrical 2 0 power produced by the wind farm may be "guaranteed" by contractual relationships or other agreements with hydroelectric plant 51 1, in...

...to provide a compensating amount of electric power to offset the short fall from the wind farm. Using the cooperative arrangement the energy output obligation 2 5 from the wind farm is achieved by asking the hydroelectric plant 51 1 to output sufficient power to compensate for the temporary short fall from the wind farm.

While the above discussion illustrates the case where the wind farm requires supplemental power to...

...produced at the virtual energy storage facility, the reciprocal relationship is equally important. When the wind farm produces more power than planned, 3 0 the surplus power may be saved in the...available as a resource to be converted to electric power at the demand of the wind farm operator, or simply preserved for a longer period of time or sold to a third...at the hydroelectric plant, may be used as a virtual energy storage facility for the wind farm 503. More particularly, in

There is one connection (preferably), "the co-active converter", from "a predetermined number of wind farms", via a C&T grid" to "the power grid." Figures 37-39 are three block...renewable production facility that is subject to stochastic (shortterm) production variations503 (previously described as a wind farm, in one embodiment) and premier power facilities 505 (preferably a renewable facility) that coordinates agreements...disclosed herein provides novel and advantageous methods and mechanisms to operate and control wind turbines, wind farms and their co-operation with the electrical power grid and its stakeholders aiming at long...

18/3,K/9 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00921170 \*\*Image available\*\*  
SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR ENHANCING COMMERCIAL VALUE OF ELECTRICAL POWER PRODUCED FROM A RENEWABLE ENERGY POWER PRODUCTION FACILITY  
SYSTEME, PROCEDE ET PRODUIT DE PROGRAMME INFORMATIQUE POUR AMELIORER LA VALEUR COMMERCIALE D'ENERGIE ELECTRIQUE PRODUITE A PARTIR D'UNE INSTALLATION DE PRODUCTION D'ELECTRICITE UTILISANT UNE ENERGIE RENOUVELABLE

Patent Applicant/Assignee:

ABB AB, S-721 78 Vasteras, SE, SE (Residence), SE (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

LOF Per -Anders, Timragatan 84, S-162 62 Vallingby, SE, SE (Residence), SE (Nationality), (Designated only for: US)

GERTMAR Lars Gustaf Ingolf, Humlegatan 6, S-722 26 Vasteras, SE, SE (Residence), SE (Nationality), (Designated only for: US)

ANDREN Lars Anders Tommy, Olstavagen 11, S-740 82 Orsundsbro, SE, SE (Residence), SE (Nationality), (Designated only for: US)

Legal Representative:

AKERMAN Marten (agent), Albihs Malmo AB, Studentgatan 4, S-203 14 Malmo, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200254561 A2-A3 20020711 (WO 0254561)

Application: WO 2001IB2724 20011224 (PCT/WO IB01002724)

Priority Application: US 2000749999 20001229; US 2001838178 20010420; US 2001839220 20010423

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 34175

Patent Applicant/Inventor:

LOF Per -Anders...

...Designated only for: US)

GERTMAR Lars Gustaf Ingolf...

...Designated only for: US)

ANDREN Lars Anders Tommy...



Fulltext Availability:  
Detailed Description

Detailed Description

... Denmark established some rules regarding grid connections from the windmills, (e.g., Specifications for Connecting Wind Farms to the Transmission Network", ELTRA I/S ELT 3 0 1999-41 1a., as well... Recently there have been a number of wind power plants that have been erected at wind farms with constant-speed and/or variable-speed units connected to the same point in the... is the use of a co-active converter in connection with a number of different wind farms instead of just one co-active converter per wind production facility.

A further feature of... information 513, thermoelectric plants 515 (or other type of electrical generation power plants), third party wind farms 517 as well as a wind farm (which may be a single wind turbine) 503, which includes premier power facilities 505, shown...

... facilities 505 and hydroelectric plant 511 (or alternatively thermoelectric plant 515 and/or third party wind farm 517) so as to make the electrical output from wind farm 503 a reliable source of electric 2 5 power. The premier power facilities 505, in...

... units. More particularly, while the premier power facilities 505 places the output waveform from the wind farm 503 in a suitable form for connection to the power grid, it also includes an...

... ability to provide reactive power to the grid at a position that is near the wind farm 503. As recognized by the present inventors, the longer term output power from the wind farm 503 may be made sufficiently predictable and reliable, in a business setting, such that units of the electrical power produced by the wind farm may be "guaranteed" by contractual relationships or other agreements with hydroelectric plant 511, in this example. These agreements are helpful in the event of a wind lull for the wind farm 503, where a control message is dispatched to the hydroelectric plant 511 to provide a compensating amount of electric power to offset the short 1 0 fall from the wind farm. Using the cooperative arrangement the energy output obligation from the wind farm is achieved by asking the hydroelectric plant 511 to output sufficient power to compensate for the temporary short fall from the wind farm.

While the above discussion illustrates the case where the wind farm requires supplemental power to be produced at the virtual energy storage facility, the reciprocal relationship is equally important. When the wind farm produces more power than planned, the surplus power may be saved in the form of...

... available as a resource to be converted to electric power at the demand of the wind farm operator, or simply preserved for a longer period of time or sold to a third...

... at the hydroelectric plant, may be used as a virtual energy storage facility for the wind farm 503. More particularly, in the event of over capacity production by the wind farm 503, the premier power facilities 505 communicates this condition to the control center processor 500...

... of electric power during this period of overproduction. The total output power from both the wind farm 503 and the hydroelectric plant 511 is thus held to be consistent with the aggregate

16

delivery requirement for both the hydroelectric plant 511 and wind farm 503. Moreover, at any given time, the wind farm 503 and the hydroelectric plant have certain contractual obligations to produce predetermined amounts of power...

File 2:INSPEC 1898-2007/Jul W4  
(c) 2007 Institution of Electrical Engineers  
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File 474:New York Times Abs 1969-2007/Aug 03  
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File 475:Wall Street Journal Abs 1973-2007/Aug 03  
(c) 2007 The New York Times  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
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File 139:EconLit 1969-2007/Jul  
(c) 2007 American Economic Association  
File 485:Accounting & Tax DB 1971-2007/Jul W4  
(c) 2007 ProQuest Info&Learning

Set	Items	Description
S1	3095	WIND() FARM?? OR WINDFARM?
S2	17423	RENEWABLE(3N) (ENERGY OR POWER() PRODUCTION)
S3	179	(WIND() TURBINE OR TIDAL OR SOLAR) (3N) FACILITIES
S4	35385	WIND(3N) (ENERGY OR POWER OR SPEED?? OR CURRENT??)
S5	1300512	METEOROLOG? OR ENVIRONMENT? OR WEATHER
S6	1355343	COMPUTERI? OR AUTOMATED OR ELECTRONIC?
S7	5893	S6(5N) (FORECAST? OR PROBABILIT? OR PREDICT? OR LIKELIHOOD)
S8	4484	S6(5N) (ODDS OR EXPECT? OR FORESEE?)
S9	287	S6(5N) (RISK() (ASSESS? OR ANALYSIS OR MANAGEMENT))
S10	3032937	(INVEST? OR (INVESTMENT OR FINANCIAL) (3N) (PRODUCT? ? OR INSTRUMENT?) OR COMMODITY OR COMMODITIES)
S11	54	AU=(LOF, P? OR LOF P? OR GERTMAR, L? OR GERTMAR L? OR ANDREN, L? OR ANDREN L? OR LUNDQUIST, F? OR LUNDQUIST F? OR WIGERT, P? OR WIGERT P? OR PER(2N) LOF)
S12	0	LARS(2N) GERTMAR OR LARS(2N) ANDREN OR FRANS() LUNDQUIST OR PETER(2N) WIGERT
S13	51100	S1:S4
S14	11813	S13 AND S5
S15	9	S14 AND (S7:S9)
S16	2	S15 AND S10
S17	2	RD (unique items)
?		

17/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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10528627

**Title: Proceedings of the Ninth IASTED International Conference on Power and Energy Systems**

Editor(s): Domijan, A.

Publisher: IASTED, Anaheim, CA, USA

Publication Date: 2007 Country of Publication: USA

ISBN: 978-0-88986-623-2 Material Identity Number: XX2007-00694

Conference Title: Proceedings of the Ninth IASTED International Conference on Power and Energy Systems

Conference Date: 3-5 Jan. 2007 Conference Location: Clearwater, FL, USA

Language: English

Subfile: B

Copyright 2007, The Institution of Engineering and Technology

Abstract: This paper deals with the following topics: power system planning, **investment**, real-time management and operations; infrastructure, reliability and **weather** effects; alternate energy developments and sustainability using biomass and solar energy; power systems modelling, demand response, end use and tariff issues; communications systems; power quality, filtering and experimental performance evaluations; **forecasting**, computational methods and **electronics**; distribution system issues, micro turbines and micro grids; **wind power** systems; nuclear **power**, power plants, modelling and evaluation of energy systems.

...Descriptors: **investment** ; ...

... **wind power** plants

...Identifiers: **investment** ; ...

... **weather** effects...

... **wind power** systems

17/3,K/2 (Item 1 from file: 485)

DIALOG(R)File 485:Accounting & Tax DB

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**\*\* FULL-TEXT AVAILABLE IN FORMATS 7 AND 9 \*\***

01059909 SUPPLIER NUMBER: 1066479031

**Union Budget 2006-2007(1)**

Chidambaram, P

Finance India v20 n1 PP: 17-46 Mar 2006

ISSN: 0970-3772 JRNL CODE: FNCI

WORD COUNT: 12923 LINE COUNT: 1,175

Accounting & Tax DB\_1971-2007/Jul W4

...TEXT: is expected to be spent on rural employment.

The NCMP mandates the Government to enhance **investment**: the **investment** rate has increased steadily from 25.3 per cent in 2002-03 to 30.1...

...intended services in the right quantity and quality are delivered to the aam admi.

#### V. **Investment**

There is an **investment** boom in the country and it is necessary to maintain the confidence of **investors**. It appears that India is catching up with the high **investment** rates of East Asia and China. Honourable

Members will notice presently that, in every sector, the attempt is to promote more **investment** .

Government is committed to a strong and effective public sector. Public Sector Enterprises (PSEs) have, through internal and extra-budgetary resources, **investment** plans amounting to Rs.122,757 crore in 2006-07. I am happy to announce...

...who are looking to India as the place for future expansion and growth.

Foreign Direct **Investment** (FDI) continues to play an important role. We have the opportunity to make India a...

...earnings and other capital. I am confident that recent policy changes will attract more foreign **investment** into the country, especially in infrastructure.

## VI. Agriculture

Let me now turn to the productive...

...also ask NABARD to open a separate line of credit for financing farm production and **investment** activities through SHGs.

The findings of the NSS 59th Round (2003) reveal that out of...

...large number of jobs.

### 7.2 Textiles

The last two Budgets have created an enabling **environment** for the growth of the textile industry, especially cotton textiles. There has been an encouraging **investment** and employment. In order to promote **investment** in this sector, Government has set up a Task Force to facilitate the development of large PC&P **Investment** Regions. World class developers and **investors** are being associated with the Task Force. It is expected that in 2006-07 at least three such **Investment** Regions will be developed.

### 7.6 Information Technology

With the spread of Information Technology (IT...

...the new ventures. The window will be open for three years in order to accelerate **investment** .

### 7.7 Small and Medium Enterprises

The introduction of the Small and Medium Enterprises (Development...

...Imports are high, but they are welcome because they are a sign of enhanced capital **investment** and industrial activity. Ministry of Commerce and Industry and Ministry of Finance have worked together to create an **environment** that is supportive of our exporters, and we are determined to double our share in...

...3,075 MW of installed capacity for the Tenth Plan was fixed for non-conventional **energy** sources, including **wind power** . By December 31, 2005, that target had been exceeded and 3,650 MW of capacity...

...sq kms, which is thrice as large as the previous round, have been offered. Besides **investment** in the upstream and downstream segments, we are encouraging **investment** in refining, pipelines and green fuel projects. In the refinery sector alone, an **investment** of Rs.22,000 crore is expected in the next few years.

### 9.6 Road...

...is necessary to take more measures. Hence, I propose to

- Increase the limit on FII **investment** in Government securities from US\$ 1.75 billion to US\$ 2 billion and the limit on FII **investment** in corporate debt from US\$ 0.5 billion to US\$ 1.5 billion;

- To raise the ceiling on aggregate **investment** by mutual funds in overseas instruments from US\$ 1 billion to US\$ 2 billion and...

...cent reciprocal share holding;

- To allow a limited number of qualified Indian mutual funds to **invest**, cumulatively up to US\$ 1 billion, in overseas exchange traded funds; and

- To set up an **investor** protection fund under the aegis of SEBI, funded by fines and penalties recovered by SEBI. This will bolster confidence among retail **investors** who should be the key drivers of the capital market.

Consultations have been held in...that fixed deposits of certain tenure should qualify for tax exemption. I propose to include **investments** in fixed deposits in scheduled banks for a term of not less than five years...

...of status of accounts and refunds of income tax will be possible.

Introduction of a **risk management** system and **Electronic Data Interchange (EDI)** in the Customs Department will reduce dwell time for cargo. E-payments...

?

File 20:Dialog Global Reporter 1997-2007/Aug 04  
(c) 2007 Dialog  
File 15:ABI/Inform(R) 1971-2007/Aug 02  
(c) 2007 ProQuest Info&Learning  
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(c) 1999 Business Wire  
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(c) 2007 Financial Times Ltd  
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(c) 1999 PR Newswire Association Inc  
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(c) 2007 San Jose Mercury News  
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(c) 2007 The Gale Group  
File 621:Gale Group New Prod.Annou.(R) 1985-2007/Jul 31  
(c) 2007 The Gale Group  
File 636:Gale Group Newsletter DB(TM) 1987-2007/Aug 02  
(c) 2007 The Gale Group  
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(c) 2007 The Gale Group  
File 160:Gale Group PROMT(R) 1972-1989  
(c) 1999 The Gale Group  
File 148:Gale Group Trade & Industry DB 1976-2007/Aug 01  
(c)2007 The Gale Group  
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(c) 2007 Info.Sources Inc  
File 625:American Banker Publications 1981-2007/Aug 03  
(c) 2007 American Banker  
File 268:Banking Info Source 1981-2007/Jul W3  
(c) 2007 ProQuest Info&Learning  
File 626:Bond Buyer Full Text 1981-2007/Aug 03  
(c) 2007 Bond Buyer  
File 267:Finance & Banking Newsletters 2007/Aug 01  
(c) 2007 Dialog

Set	Items	Description
S1	50672	WIND() FARM?? OR WINDFARM?
S2	188587	RENEWABLE(3N) (ENERGY OR POWER() PRODUCTION)
S3	2541	(WIND() TURBINE OR TIDAL OR SOLAR) (3N) FACILITIES
S4	132969	WIND(3N) (ENERGY OR POWER OR SPEED?? OR CURRENT??)
S5	11030839	METEOROLOG? OR ENVIRONMENT? OR WEATHER
S6	10940662	COMPUTER? OR AUTOMATED OR ELECTRONIC?
S7	37720	S6(5N) (FORECAST? OR PROBABILIT? OR PREDICT? OR LIKELIHOOD)
S8	79556	S6(5N) (ODDS OR EXPECT? OR FORESEE?)
S9	9016	S6(5N) (RISK() (ASSESS? OR ANALYSIS OR MANAGEMENT))
S10	22603502	(INVEST? OR (INVESTMENT OR FINANCIAL) (3N) (PRODUCT? ? OR INSTRUMENT?) OR COMMODITY OR COMMODITIES)
S11	2	AU= (LOF, P? OR LOF P? OR GERTMAR, L? OR GERTMAR L? OR ANDREN, L? OR ANDREN L? OR LUNDQUIST, F? OR LUNDQUIST F? OR WIGERT, P? OR WIGERT P? OR PER(2N) LOF)
S12	184	LARS(2N) GERTMAR OR LARS(2N) ANDREN OR FRANS() LUNDQUIST OR PETER(2N) WIGERT
S13	293311	S1:S4
S14	17197	S13(5N) S5
S15	3	S14(5N) (S7:S9)
S16	3	RD (unique items)
S17	413	S14(5N) S10

S18	70	S17 NOT PY>2000
S19	50	RD (unique items)
S20	33	S19 NOT RESEARCH
S21	0	S12 (5N) S1
?		

16/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

36283964 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Computers help keep a weather eye open**  
WESTERN MORNING NEWS  
June 22, 2004  
JOURNAL CODE: FWMN LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 615

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... seafarers back in 1854.  
And yet, 42 years after the Met Office acquired its first **electronic**  
computer to help **forecasters** interpret temperature, **wind speed**, and  
air pressure, the **weather** remains intriguingly unpredictable.  
In the event, the rain held off for the speeches, for Lord...

16/3,K/2 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

09306739 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Europe: Pollution: Oil slick declared risk to Irish west coast**  
TOM MACSWEENEY, DUBLIN  
LLOYDS LIST  
January 24, 2000  
JOURNAL CODE: FLL LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 225

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... about 400 by 100 metres and moving in a southerly direction.  
Met Eireann factored in **computerised predictions** with sea  
**currents**, **wind** and **weather** assessed by the Marine Rescue  
Co-ordination Centre and all local council authorities on the...

16/3,K/3 (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

09254038 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Home News: Factory ship skipper to be questioned about oil spill off west coast at weekend**  
LORNA SIGGINS, Marine Correspondent  
IRISH TIMES, p11  
January 24, 2000  
JOURNAL CODE: FIRT LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 519

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... proceed to the scene, while IMES ran computerised prediction models  
incorporating sea currents, wind and **weather** at its headquarters in  
Leeson Lane, Dublin.

The Fine Gael marine spokesman, Mr Michael Finucane...

?



20/3,K/1 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

07496914  
**Germans invest increasingly in Eco-funds (Deutsche investieren zunehmend in  
Oko-Fonds)**  
DIE WELT, p22  
September 24, 1999  
JOURNAL CODE: FWEL LANGUAGE: German RECORD TYPE: ABSTRACT  
WORD COUNT: 61

...records that Germans have invested DM6bn in Eco-funds.  
Of this DM6bn, DM2.8bn was **invested in wind power** companies. The  
growing interest for **environmentally** friendly investment has resulted in  
the green capital market achieving a market share of almost...

20/3,K/2 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

05435327 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Net gives you power to save on fuel**  
SECTION TITLE: Investor money  
Compiler: Emma Tyrrell  
EXPRESS ON SUNDAY  
May 23, 1999  
JOURNAL CODE: FSE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 704

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... find you the best air-miles deals, or "green" fuel deals, giving  
smaller savings but **investing in environmental** projects or **renewable  
energy**.  
Which site you choose may also depend on the way you pay your bills.  
If...

20/3,K/3 (Item 3 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

05189443 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Stonyfield Farm Named Double Winner of Environmental Awards; Yogurt Maker  
Receives National Recognition for Climate Change Efforts**  
BUSINESS WIRE  
May 04, 1999  
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 505

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... their yogurt lids, and a program to offset the company's climate  
change impact by **investing in reforestation and renewable energy**.  
The Robert Rodale **Environmental** Achievement Award, is given to the  
group that embodies the quest for better public health...

20/3,K/4 (Item 4 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.  
04690102 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**FRIENDS OF THE EARTH: Budget '99 it was greener than you think**  
M2 PRESSWIRE  
March 18, 1999  
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 893

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Chancellor were:  
Energy \* Industrial energy tax, with cuts in employers' NIC and support for companies investing in environmental technologies and renewable energy (to be introduced 2001/2002)  
Landfill \* Escalator on the Landfill Tax (immediate) \* Reform Landfill Tax...

20/3,K/5 (Item 5 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2007 Dialog. All rts. reserv.

01541535 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Bakersfield, Calif., Is Site of American Wind Energy Association Conference**  
Marc Benjamin  
KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (BAKERSFIELD CALIFORNIAN)  
May 04, 1998 11:31  
JOURNAL CODE: KBKC LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 861

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... congressional supporters, about twice the number of initial supporters since February.  
"It makes business and environmental sense to invest in wind energy," Thomas told The Californian last week.  
"The production tax credit ... promotes better technological development because...

20/3,K/6 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2007 ProQuest Info&Learning. All rts. reserv.

01903267 05-54259  
**Charges of the heat and light brigade**  
Rajgor, Gail  
Director v52n12 PP: 60-63 Jul 1999  
ISSN: 0012-3242 JRNL CODE: DRT  
WORD COUNT: 1579

...TEXT: encourage large users to cut energy consumption by introducing energy-efficiency measures and also by investing in more environmentallyfriendly power sources such as renewable energy or combined heat and power systems - both of which can help reduce greenhouse gas emissions...

20/3,K/7 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2007 ProQuest Info&Learning. All rts. reserv.

01604970 02-55959  
**Socio-economic assessment of wind power--Lessons from Denmark**  
Munksgaard, Jesper; Larsen, Anders  
Energy Policy v26n2 PP: 85-93 Feb 1998  
ISSN: 0301-4215 JRNL CODE: ENP

...ABSTRACT: from noise and visual effects from wind mills are added. The main result of the **investigation** is that the **environmental** benefits of **wind power** are so significant that from a socioeconomic point of view wind power and natural gas...

20/3,K/8 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2007 ProQuest Info&Learning. All rts. reserv.

00594472 92-09645  
**Cleaning Up Their Act: How U.S. Firms Can Get Paid Dollars for Environmental Projects in Eastern Europe**  
Thayer, James D.; Kadas, Carolyn A.  
Journal of European Business v3n3 PP: 34-39 Jan/Feb 1992  
ISSN: 1044-002X JRNL CODE: JER  
WORD COUNT: 3493

...TEXT: in Central and Eastern Europe.

ENVIRONMENTAL ENTERPRISE ASSISTANCE FUND. Together with Winrock International this fund **invests** in small-scale, commercially viable **renewable energy** and other **environmentally** responsible technologies.

ENERGY EFFICIENCY CENTERS. These regional centers in Warsaw, Katowice, and Prague are dedicated...

20/3,K/9 (Item 1 from file: 476)  
DIALOG(R)File 476:Financial Times Fulltext  
(c) 2007 Financial Times Ltd. All rts. reserv.

0011652941 A20050215823-229-FT  
**FT REPORT - UNDERSTANDING BUSINESS & CLIMATE CHANGE: A change in the business climate**  
Financial Times, P 2  
DOCUMENT TYPE: NEWSPAPER LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
SECTION HEADING: FT REPORT - UNDERSTANDING BUSINESS & CLIMATE CHANGE  
Word Count: 1,630

...accountancy firm, showed that the UK and Spain are the world's two most attractive **environments** for **investment** in **renewable energy** technologies, such as **wind** and solar **energy**. A further advantage for business is that environmental awareness can considerably enhance a company's...

20/3,K/10 (Item 2 from file: 476)  
DIALOG(R)File 476:Financial Times Fulltext  
(c) 2007 Financial Times Ltd. All rts. reserv.

0010581821 ACxxxxxx0104  
**SHORTS: Investors swept away by wind power**  
The Financial Times, London Edition 1 ED, P 29  
Wednesday, November 29, 2000  
DOCUMENT TYPE: NEWSPAPER; Briefs & summaries LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
Word Count: 34

TEXT:

**Investors** swept away by **wind power**

Escalating oil prices and growing **environmental** concerns have caused a wave of investor interest in green energy sources, with European wind...

20/3,K/11 (Item 3 from file: 476)  
DIALOG(R)File 476:Financial Times Fulltext  
(c) 2007 Financial Times Ltd. All rts. reserv.

0008509872 BOGEOAAD7FT  
**Letters to the Editor: Invest in renewable energy**  
From PETER M HEILMANN  
Financial Times, International Edition 1 ED, P 12  
Wednesday, May 15, 1996  
DOCUMENT TYPE: Letters; NEWSPAPER LANGUAGE: ENGLISH RECORD TYPE:  
FULLTEXT  
Word Count: 234

...to a minimum'. Let's put taxpayers' money to a better, cleaner use and start **investing** in safer, **renewable energy**, which is much more **environmentally** -sustainable than nuclear fusion. Indeed, I agree with Mr Tom Elsworth, Jet's spokesman, when...

20/3,K/12 (Item 1 from file: 813)  
DIALOG(R)File 813:PR Newswire  
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0826236 NE006  
**MASSACHUSETTS REACHES UNPRECEDENTED CONSENSUS ON ELECTRIC INDUSTRY  
RESTRUCTURING**

DATE: May 26, 1995 13:01 EDT WORD COUNT: 364

...The 17 interrelated principles call for customer choice, near-term rate relief for all customers, **environmental** clean-up, continued **investment** in **energy** conservation and **renewable energy** programs, recovery of past **investments** made by utilities under the current system, and protection of IPP contracts, among other items...

20/3,K/13 (Item 1 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

01085155  
**COMED OFFERS GREEN PRODUCT; APX LAUNCHES GREEN MARKET, ILL. EXCHANGE**  
Power Markets Week, Vol. 41, No. 15, Pg 11  
April 10, 2000  
JOURNAL CODE: PMW  
SECTION HEADING: MARKETPLACE ISSN: 1078-9820  
WORD COUNT: 463

TEXT:

... for a premium to power marketers and retail suppliers. The tickets in effect separate the **environmental** benefits of the **renewable energy** from standard **commodity** kilowatt hours. These tickets can be banked by the purchasers and later recombined with the...

20/3,K/14 (Item 2 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

01084723  
**ILLINOIS APX EXPECTS DEALS BY SUMMER; HAS RECIPROCAL PACT WITH OHIO APX**  
Electric Utility Week, Vol. 26, No. 15, Pg 9

April 10, 2000

JOURNAL CODE: EUW

SECTION HEADING: POWER MARKETING ISSN: 0046-1695

WORD COUNT: 665

W A S H I N G T O N

April 10, 2000  
JOURNAL CODE: EUW  
SECTION HEADING: POWER MARKETING ISSN: 0046-1695  
WORD COUNT: 665

TEXT:

... for a premium to power marketers and retail suppliers. The tickets, in effect, separate the **environmental** benefits of the **renewable energy** from standard **commodity** kWhs. These tickets can be banked by the purchasers and later recombined with the commodity...

20/3,K/15 (Item 3 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

01083224  
**COMED BEGINS WHOLESALING GREEN POWER; GREEN EXCHANGE COMES TO ILL., OHIO, PENN.**  
Utility Environment, Vol. 41, No. 14, Pg 9  
April 7, 2000  
JOURNAL CODE: UER  
SECTION HEADING: Green Power ISSN: 1503-9379  
WORD COUNT: 587

TEXT:

... for a premium to power marketers and retail suppliers. In effect, the tickets separate the **environmental** benefits of the **renewable energy** from the standard electricity **commodity**. These tickets can be banked by the purchasers and later, combined with the commodity kWhs...

20/3,K/16 (Item 4 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

01039778  
**STEADY STREAM OF BILLS TARGET COAL-FIRED PLANTS**  
Coal Week, Vol. 25, No. 34, Pg 10  
August 23, 1999  
JOURNAL CODE: COW  
SECTION HEADING: WASHINGTON WIRE ISSN: 0149-578X  
WORD COUNT: 517

TEXT:

... reduce emissions of the full range of pollutants that damage human health and the global **environment**. It requires increased **investments** in **renewable energy** and **energy** efficiency programs, and it gives consumers the information and ability to choose clean sources of...

20/3,K/17 (Item 5 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

00883639  
**Will restructuring kickstart renewables?**  
By Elisa Wood  
Elisa Wood is an energy writer based in Marstons Mills, Mass.  
Electrical World, Vol. 211, No. 9, Pg 41  
September, 1997  
JOURNAL CODE: EW

SECTION HEADING: MARKETS: ECOWATT MARKET ISSN: 0013-4457  
WORD COUNT: 1,266

...COMPANY NAMES: Green Power Market ; Conservation Law Foundation ;  
Detroit Edison Co ; Energy Efficiency Fund ; Enron Corp ; Enron  
**Renewable Energy Corp ; Environmental Defense Fund ; Financing**  
**Investments** ; International Finance Corp ; Lawrence Berkeley National  
Laboratory ; National Renewable Energy Laboratory ; New England Electric  
System...

20/3,K/18 (Item 6 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

00771853  
**Empire state restructures: New York State restructures its electric**  
**market: Retail markets to open in 1998, after wholesale markets**  
**introduce competition next year**  
Electrical World, Vol. 210, No. 6, Pg 6  
June 1996  
JOURNAL CODE: EW  
SECTION HEADING: REGIONAL REPORT ISSN: 0013-4457  
WORD COUNT: 753

TEXT:

... competitive environment. The systems benefit charge, as originally  
proposed by a coalition of consumer and **environmental** groups, would  
support **energy efficiency and renewable energy investments** .

The PSC staff analysis recommends that stranded costs, mitigation, and  
recovery be decided in the...

20/3,K/19 (Item 7 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

0662737  
**EXPERTS SEE MANY YEARS OF TRANSITION TO A COMPETITIVE CALIF. POWER MARKET**  
Electric Utility Week, Pg 11  
April 24, 1995  
JOURNAL CODE: EUW  
SECTION HEADING: RESTRUCTURING ISSN: 0046-1695  
WORD COUNT: 1,002

TEXT:

... transmission and generation functions. However, they sharply disagreed  
over who should pay for utilities' stranded **investments** , as well as  
**energy conservation, environmental , and renewable energy** programs  
currently funded through rates. ``Most of us in this industry think that a  
competitive...

20/3,K/20 (Item 8 from file: 624)  
DIALOG(R)File 624:McGraw-Hill Publications  
(c) 2007 McGraw-Hill Co. Inc. All rts. reserv.

0219438  
**EC prods Denmark on plan to limit coal and oil use**  
Coal Week International, Vol. 11, No. 21, Pg 1  
May 22, 1990  
JOURNAL CODE: CWI

SECTION HEADING: International ISSN: 0149-578X  
WORD COUNT: 1,011

TEXT:

...larger, central, coal fired power plants built until now. The government also wants utilities to **invest** in additional **wind power** plants.

**Energy** tax spurs controversy

**Environmental** taxes on top of already high energy taxes for coal and oil are also under...

20/3,K/21 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2007 The Gale Group. All rts. reserv.

04795823 Supplier Number: 65700610 (USE FORMAT 7 FOR FULLTEXT)  
**HOUSE DEMOCRATS TELL REP. BARTON TO LET SPR OIL FLOW.**  
Octane Week, v15, n39, pNA  
Oct 2, 2000  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 877

... to provide tax credits to keep marginal wells in production, or tax credits to spur **investment** in **renewable energy** sources and **energy** efficient technologies."

Barton also blamed **environmental** regulations for some of today's prices. "Environmental policies that require refineries to produce 'boutique...

20/3,K/22 (Item 2 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2007 The Gale Group. All rts. reserv.

03888051 Supplier Number: 48498189 (USE FORMAT 7 FOR FULLTEXT)  
**EIB LAUNCHES CAPITAL FACILITY AND GRANTS TWO LOANS IN SPAIN**  
European Report, pN/A  
May 27, 1998  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 305

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...public-sector projects designed to boost competitiveness, make more efficient use of energy - mainly involving **investment** in CHP and **wind power** schemes - protect the **environment**, improve infrastructure and **investment** in health, education and urban development; - a loan for 8.5 billion Pesetas (ECU 51...

20/3,K/23 (Item 3 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2007 The Gale Group. All rts. reserv.

03352572 Supplier Number: 46893642 (USE FORMAT 7 FOR FULLTEXT)  
**ISEIR Focus: Biomass Energy: Small Projects, Management Are Vital To**



**Attracting Investors for Biomass**

International Solar Energy Intelligence Report, v22, n23, pN/A  
Nov 15, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Newsletter; Trade  
Word Count: 640

Private lenders are more concerned with assurances of **investment** returns than with the **environmental** impacts of **renewable energy** projects, Frederic Truslow, senior vice president for Rappahancock Investment Co., Nov. 13 told the Strategic...

**20/3,K/24 (Item 4 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02643882 Supplier Number: 45354105 (USE FORMAT 7 FOR FULLTEXT)  
**MEP launches forum to push for renewables**  
EC Energy Monthly, pN/A  
Feb 23, 1995  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 371

... energy argue that with a European Union CO2 tax unlikely to get off the ground, **investing in environmentally friendly renewable energy** sources could be one way to persuade environmentalists and fellow Rio Climate Treaty signatories that...

**20/3,K/25 (Item 5 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2007 The Gale Group. All rts. reserv.

02614615 Supplier Number: 45291298 (USE FORMAT 7 FOR FULLTEXT)  
**Wisconsin Takes Next Step Toward Utility Competition**  
Energy Daily, v# 2, n# 18, pN/A  
Jan 27, 1995  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 697

... 18-member advisory committee will incorporate various constituencies, ranging from consumers to municipal, cooperative and **investor -owned utilities, environmentalists , renewable energy** representatives, low-income consumers, labor leaders, independent power producers, energy service providers and small business...

**20/3,K/26 (Item 6 from file: 636)**

DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02375306 Supplier Number: 44680677 (USE FORMAT 7 FOR FULLTEXT)  
**Major Economic Benefits Projected From Wisconsin Energy Plan**  
International Solar Energy Intelligence Report, pN/A  
May 16, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Newsletter; Trade

Word Count: 596

... plants and equipment.

Net economic impacts cited in the report cover consumer spending impacts, including **environmental** regulation costs, from **investing** in **renewable energy** instead of fossil fuels.

"Without **environmental** regulation costs, total life cycle expenditures for renewable energy in the accelerated growth scenario exceed ...

20/3,K/27 (Item 7 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2007 The Gale Group. All rts. reserv.

02324342 Supplier Number: 44530370 (USE FORMAT 7 FOR FULLTEXT)

**UTILITY EXECS QUESTION NEED FOR 'FIX' IN RESPONSE TO JANUARY'S WEATHER CRISIS**

The Energy Report, v22, n11, pN/A

March 21, 1994

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 697

... Developer decries utilities' short-term view

But an independent power developer called on utilities to **invest** in higher -cost **renewable energy** sources not so susceptible to **weather** - related stoppages.

Frank Fisher, president of Mt. Hope Hydro Inc., said competition is prompting utilities...

20/3,K/28 (Item 8 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2007 The Gale Group. All rts. reserv.

02178258 Supplier Number: 44101222 (USE FORMAT 7 FOR FULLTEXT)

**Emphasis on energy statistics**

EC Energy Monthly, pN/A

Sept 16, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 69

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...8.93). Statistics will be compiled on energy price transparency, security of supply, substitution of **energy** products, rational **energy** use, **renewable energy** sources, regional **energy investment** and the **environmental** impact of emissions from energy sources.

20/3,K/29 (Item 9 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2007 The Gale Group. All rts. reserv.

01471293 Supplier Number: 42019044 (USE FORMAT 7 FOR FULLTEXT)

**EEAF Invests In Environment**

Eastern Europe Report, v1, n15, pN/A

April 22, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 86

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

The U.S.-based Environmental Enterprises Assistance Fund (EEAF) is **investing** in commercially viable **renewable energy** and other **environmental** technologies in Eastern Europe.

20/3,K/30 (Item 10 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2007 The Gale Group. All rts. reserv.

01418265 Supplier Number: 41854757 (USE FORMAT 7 FOR FULLTEXT)

**German Utilities Must Pay More For Power from Renewables**

International Solar Energy Intelligence Report, v1, n3, pN/A

Feb 8, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Newsletter; Trade

Word Count: 508

... Parliament into legislating higher prices for independent producers. They hope that increased compensation will encourage **investment** in **environmentally** friendly, **renewable energy** sources. The ministry will continue to monitor industry developments and is required to submit a ...

20/3,K/31 (Item 1 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2007 The Gale Group. All rts. reserv.

08604064 Supplier Number: 70382851 (USE FORMAT 7 FOR FULLTEXT)

**TransAlta Endorses Wind Power With Stake in Private Company.**

Natural Gas Week, v16, n36, p14

Sept 4, 2000

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 131

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...made its first of what will be C\$100 million (US\$67.5 million) in **investments** in **renewable energy** projects and other **environmentally** friendly energy projects.

20/3,K/32 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2007 The Gale Group. All rts. reserv.

04404146 Supplier Number: 46461008

**NYE CO2-AFGIFTER PA DANSK ELPRODUKTION**

Boersen, p12

June 12, 1996

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

ABSTRACT:

...of a government committee representing five ministries. The aim is to stimulate power plants to **invest** in **renewable** and **environment** friendly **energy**. Hitherto the CO2-tax has been paid only by end users.

20/3,K/33 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2007 The Gale Group. All rts. reserv.

08190402 SUPPLIER NUMBER: 17576809

Switzerland seeks to relaunch flagging Energy 2000 programme.

European Energy Report, n443, p4(1)

Sep 15, 1995

ISSN: 0261-2259

LANGUAGE: English

RECORD TYPE: Abstract

...ABSTRACT: revitalise the flagging programme. The federal scheme, aimed at saving energy, optimising the use of **renewable energy** and protecting the **environment** has had an **investment** of \$319 million in its first half, although its yearly budget has been cut back.

?

File 1:ERIC 1965-2007/May  
 (c) format only 2007 Dialog  
 File 2:INSPEC 1898-2007/Jul W4  
 (c) 2007 Institution of Electrical Engineers  
 File 5:Biosis Previews(R) 1926-2007/Jul W5  
 (c) 2007 The Thomson Corporation  
 File 6:NTIS 1964-2007/Aug W2  
 (c) 2007 NTIS, Intl Cpyrght All Rights Res  
 File 7:Social SciSearch(R) 1972-2007/Jul W4  
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 (c) 2007 The Gale Group  
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 (c) 2007 CSA.  
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 (c) 2007 ProQuest Info&Learning  
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 (c) 2007 The Gale Group  
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 (c) 2007 The Gale Group  
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 (c) 2007 Amer.Chem.Soc.  
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 File 31:World Surface Coatings Abs 1976-2007/Jul  
 (c) 2007 PRA Coat. Tech. Cen.  
 File 33:Aluminium Industry Abstracts 1966-2007/Jul  
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 (c) 2007 The Thomson Corp  
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 (c) 2007 ProQuest Info&Learning  
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 (c) 2007 The Thomson Corporation  
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 (c) 2007 Congressional Information Service  
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 (c) 2007 CSA.  
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 (c) 2007 Elsevier B.V.  
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 (c) 2007 The Gale group  
 File 49:PAIS Int. 1976-2007/May  
 (c) 2007 Cambridge Scientific Abstracts Inc.  
 File 50:CAB Abstracts 1972-2007/Jul  
 (c) 2007 CAB International  
 File 54:FOODLINE(R): Market 1979-2007/Jul 30

(c) 2007 LFRA  
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(c) 2007 Geosystems  
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(c) 2007 CSA.  
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(c) 2007 CSA.  
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(c) 2007 American Institute of Physics  
File 63:Transport Res(TRIS) 1970-2007/Jun  
(c) fmt only 2007 Dialog  
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(c) 2007 CSA.  
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(c) 2007 BLDSC all rts. reserv.  
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(c) 2007 Elsevier B.V.  
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(c) 2002 General Mills  
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(c) 2007 The Gale Group  
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(c) 2007 MIRA Ltd.  
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(c)2007 The University of Tulsa  
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(c) 2007 The Gale Group  
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(c) 2007 American Geological Institute  
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(c) 1999 Information Handling Services  
File 93:TableBase(R) Sep 1997-2007/Jul W4  
(c) 2007 The Gale Group  
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(c) 2007 FIZ TECHNIK  
File 96:FLUIDEX 1972-2007/Jun  
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File 99:Wilson Appl. Sci & Tech Abs 1983-2007/Jul  
(c) 2007 The HW Wilson Co.

Set	Items	Description
S1	41180	WIND()FARM?? OR WINDFARM?
S2	9964402	COMPUTER? OR AUTOMATED OR ELECTRONIC?
S3	52379	S2(5N) (FORECAST? OR PROBABILIT? OR PREDICT? OR LIKELIHOOD)
S4	56509	S2(5N) (ODDS OR EXPECT? OR FORESEE?)
S5	5938	S2(5N) (RISK() (ASSESS? OR ANALYSIS OR MANAGEMENT))
S6	16016889	METEOROLOG? OR ENVIRONMENT? OR WEATHER
S7	26303908	(INVEST? OR (INVESTMENT OR FINANCIAL) (3N) (PRODUCT? ? OR INSTRUMENT?) OR COMMODITY OR COMMODITIES)

S8	48	S1 AND (S3:S5)
S9	16	S8 AND S6
S10	11	S9 AND S7
S11	9	RD (unique items)
?		

11/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02967856 918979481

#### OUTLOOK 2006

Anonymous

Futurist v39n6 PP: A1-A10 Nov/Dec 2005

ISSN: 0016-3317 JRNL CODE: FUS

WORD COUNT: 5883

...ABSTRACT: areas include: 1. business and economics, 2. demography, 3. the developing world, 4. education, 5. **environment**, 6. health, 7. information society, 8. resources, 9. security and terrorism, 10. technology and science...

...TEXT: news stories originally appearing in THE FUTURIST or in Futurist Update, the Society's monthly **electronic** newsletter.

The **forecasts** should not be interpreted as "predictions" of what the future will be like, but rather...

...decade, the U.S. solar industry could generate more than \$34 billion in new manufacturing **investments**. Solar power could displace 6 trillion cubic feet of natural gas by 2025, saving U...

...neighbors. -Marvin J. Cetron and Owen Davies, "Trends Now Shaping the Future: Economic, Societal, and **Environmental** Trends," Mar-Apr 2005, p. 29

#### THE DEVELOPING WORLD

\* Progress in meeting global development targets...

...surpassed many of the UN Millennium Development Goals for reducing poverty, improving health, and ensuring **environmental** sustainability. By 2001, Egypt had met the 2015 objective of reducing hunger from 5% of...

...of science scholarship in the region is considered an indicator of nations' growing commitment to **investing** in science and engineering as an engine for development. -World Trends & Forecasts, Mar-Apr 2005...

...When people die young, businesses and institutions fail to think in the long term and **invest** in opportunities that could promote growth, since there may not be enough workers to support...

...so they can adjust their lesson plans. -World Trends & Forecasts, July-Aug 2005, p. 9

#### ENVIRONMENT

\* Urban heat waves will get hotter and last longer. Large urban centers like Chicago and...

...of salt-tolerant, or halophytic, flowers. Commercial species of flowers that can grow in salty **environments** could reduce costs for the cut-flower industry, preserve freshwater for more critical uses, and...

...Jan-Feb 2005, p. 6

\* Cell phones for compost. Discarded cell phones are a growing **environmental** problem, so researchers in the United Kingdom have developed phones with biodegradable materials. They even...

...installed between 2004 and 2008, of which 99% will be in the form of offshore **wind farms**. Worldwide, the offshore wind market is expected to grow to \$3 billion a year by...



...the next 50 years. One proposed solution for meeting this growing demand without destroying the **environment** in the process is to build a superconducting pipeline, or SuperGrid, that would transport electricity...

...the use of superconducting cables, which would be buried underground to provide more protection against **weather** -related blackouts. -World Trends & Forecasts, Sep-Oct 2005, p. 7

#### SECURITY AND TERRORISM

\* Terrorist acts...years. -Marvin J. Cetron and Owen Davies, "Trends Now Shaping the Future: Economic, Societal, and **Environmental** Trends," Mar-Apr 2005, p. 33

\* Global partnerships against terrorism will grow Stronger. Though nations will likely continue to bicker over trade, the **environment**, and foreign policy, they will increasingly cooperate to curb terrorism and reverse nuclear proliferation. The...

...shops. -Marvin J. Cetron and Owen Davies, "Trends Now Shaping the Future: Economic, Societal, and **Environmental** Trends," Mar-Apr 2005, p. 37

\* Smart surveillance cameras could thwart crime. Future surveillance cameras...

...as violent behavior or glass breaking. Then the smart cameras will call the police to **investigate**. -World Trends & Forecasts, May-June 2005, p. 10

\* Technologies may help militarize the police. High...

...benefit impoverished citizens of host sites), and responsible tourism (minimizing negative impacts on the local **environment** and culture).

-World Trends & Forecasts, Sep-Oct 2005, p. 14

\* In the future, we will...

...imagine 9 billion."

-Donald Louria, Futurist Newsmakers, May-June 2005, p. 67

#### Virtual Health: Smarter **Environments** Will Keep an Eye Out for Us

\* More doctors and hospitals will make use of...

11/3,K/2 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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12874952 Supplier Number: 141345335 (USE FORMAT 7 FOR FULLTEXT)  
**Higher electricity prices power TransAlta's fourth quarter results.**

Business Wire, pNA

Jan 27, 2006

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 7194

... in 2004.

At Dec. 31, 2005, TransAlta's total debt (including non-recourse debt) to **invested** capital ratio was 43.6 per cent (39.8 per cent excluding non-recourse debt...spark spreads at Poplar Creek (\$10.1 million); and favourable volume and prices at our **windfarms** (\$5.2 million). These increases were partially offset by higher fuel costs at Centralia (\$13...

not entered into fixed **commodity** agreements for gas for these merchant plants as gas will be purchased coincident with spot...

...and Centralia mines. The remainder will be spent at CE Gen and on productivity related **investments**. Financing for these expenditures is expected to be provided by cash flow from operations.  
Planned...

...of competition entering the market; global capital markets activity; timing and extent of changes in **commodity** prices, prevailing interest rates, currency exchange rates, inflation levels and general economic conditions in geographic...

...Brian Burden, Executive Vice-President and CFO, followed by a question and answer period for **investment** analysts. A question and answer period for the media will immediately follow. Please contact the...

...range (last 12 months)	High	\$ 26.66	\$ 18.79
	Low	\$ 17.67	\$ 15.25
Debt/ <b>invested</b> capital			
(including non-recourse debt)		43.6%	46.4%
Debt/ <b>invested</b> capital			
(excluding non-recourse debt)		39.8%	42.4%
Return on common shareholders' equity		7.5%	6.5%
Return on <b>invested</b>			
capital	7.4%	7.5%	
Book value per share		\$ 12.80	\$ 12.73
Cash dividends...			
...3.9%	5.5%		
Cash Flow to Debt		23.5%	18.6%

-----

#### RATIO FORMULAS

Debt/ **invested** capital = (short-term debt + long-term debt - cash and interest-earning **investments**) / (debt + preferred securities + non-controlling interests + common equity)

Return on common shareholders' equity = net earnings excluding gain on discontinued operations / average of opening and closing common equity

Return on **invested** capital = (earnings before non-controlling interests and income taxes + net interest expense) / average annual **invested** capital

Book value per share = common shareholders' equity / common shares outstanding

Price/earnings ratio = current...

...company focused on creating long-term shareholder value. We maintain a low-risk profile for **investors** by operating a highly contracted portfolio of assets in Canada, the U.S., Mexico and...

11/3,K/3 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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10789188 Supplier Number: 109253367 (USE FORMAT 7 FOR FULLTEXT)  
PR Newswire National Summary, Monday, Oct. 27, Midnight to 10 a.m. ET.  
PR Newswire, pNA  
Oct 27, 2003  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 3598

... Launch of EurExcel Netherlands

DAM006B 10/27/2003 02:00 r f bc-TX-Shell- wind - farm

York

SFM049 10/27/2003 09:03 r f...

...NYM075 10/27/2003 09:12 r f bc-Roche-Pegasys-Copegus  
(BOSTON) New Study **Investigates** Pegasys(R) and Copegus(R) for the  
Treatment of Chronic Hepatitis C in African Americans...

...for Physicians'

NYM032 10/27/2003 09:13 r f bc-NY-Pricewaterhouse  
(NEW YORK) **Investment** Management Industry Poised for Change  
Over the Next Three Years

NYM076 10/27/2003 09...

...Accessories With Hop-on

SFM113 10/27/2003 09:13 r f bc-CA-Globalstar- **Invest**  
(SAN JOSE) Globalstar Reopens Discussions With Potential **Investors**

CHM005 10/27/2003 09:14 r f bc-NC-Kadro-Solutions  
(RALEIGH) Kadro Solutions...2003 09:50 r f bc-NY-MFA-3Q-Conf.-Call  
(NEW YORK) MFA Mortgage **Investments** , Inc. Schedules Third Quarter  
2003 Earnings Release and Conference Call

NEM022 10/27/2003 09...

...27/2003 10:00 r f bc-Isotechnika-TD-Forum  
(EDMONTON) Isotechnika Invited to Update **Investment**  
Community at TD  
Securities Technology and Biotechnology Forum

Journalists can receive a free custom email...

11/3,K/4 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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54147282 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Q3 2007 American Superconductor Earnings Conference Call - Part 2**  
FAIR DISCLOSURE WIRE  
February 01, 2007  
JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 4881

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...margins here and again, we haven't given anything specific in terms  
of our revenue **forecast** specifically for power **electronic** systems next  
year, we said about \$50 million in revenues. We said it looks like...  
... and a half years ago, when we sold our first DVAR to PacifiCorp for  
the **wind farm** in Wyoming. DVAR sales have continued to grow, as I said,  
we're serving over 20 **wind farms** with our DVAR grid interconnection  
device.

I expect more orders for DVARs this quarter and... in the  
September/October timeframe. We have small DVCs out there in some of the  
**wind farm** applications actually. In terms of what's coming up, we have  
quotes out there to... Thanks very much. OPERATOR: We'll take our next  
question from Robert Smith with Performance **Investing**. GREG YUREK: Hi  
Bob. ROBERT SMITH, ANALYST, PERFORMANCE **INVESTING** : Hi, good morning.  
Most of my questions have been answered, but I have two that...

... higher efficiencies, and we bring something to the party across the

board for the green **environment** . So I think that only can be good for us, Bob, I don't see...

11/3,K/5 (Item 2 from file: 20)  
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53843060 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**KEY CHALLENGES REMAIN FOR DEVELOPING AND DEPLOYING ADVANCED**  
GAO REPORTS  
December 20, 2006  
JOURNAL CODE: WGEO LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 4125

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... state financial incentives, DOE's R&D programs that decreased costs and improved efficiencies, and **environmental** and energy security concerns. For example, U.S. wind electric generation capacity has grown from...

... the effects of wave and current loads on the base of wind structures, connecting offshore **wind farms** to the electric transmission grid, and designing support structures for turbines located in deep water...

...costs to build a facility and connect it to the power transmission grid. Constructing a **wind farm** may cost less than connecting the facility to the power transmission grid, according to DOE...

... s size, the terrain, and the transmission line rating. In addition, in most areas, a **wind farm**'s investors would pay for upgrading the power transmission grid to carry the extra load...

...wind speed and sunlight vary, depending, for example, on the time of day and the **weather** --on average, wind turbines operate the equivalent of less than 40 percent of the hours...

...conducting R&D in this area.

A recent challenge facing the wind industry is mitigating **environmental** and community concerns about its adverse effects. While wind energy does not create the pollution or greenhouse gas emissions associated with fossil fuel power generation, some **wind farms** have resulted in the death of birds and bats because they are located amidst migratory pathways or important habitats.<sup>24</sup> Our 2005 report found that impacts of **wind farms** on birds and other wildlife varied by region and by species, and the lack of...operate worldwide. The unproven nature of IGCC technology creates uncertainty and reluctance among industry to **invest** in building a new coal-based IGCC power plant, particularly given the additional cost, according...

... into a single license that requires applicants to submit final design information, safety analyses, and **environmental** data in advance of or with the license application. While industry representatives generally agree that...

... and operating license. The early site permits address site suitability matters such as safety and **environmental** issues and, once obtained, can be used as a reference in a combined license application...

... each reactor manufacturer with variations only to address the site's local characteristics, such as environmental conditions. NRC also has created a separate Office of New Reactors to oversee the licensing...

... additional staff by fiscal year 2008, and is developing a more robust system to handle **electronic** comments. NRC **expects** to review license

applications and issue a decision within 42 months. However, while it has ...

... projects at existing nuclear power plants also benefit from existing power transmission lines and historical **environmental** data for the required **environmental** impact assessment. However, industry officials acknowledge that public support is fragile and note that a...

11/3,K/6 (Item 3 from file: 20)  
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50956307 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Event Brief of Q1 2007 American Superconductor Earnings Conference Call - Part 1**  
FAIR DISCLOSURE WIRE  
August 08, 2006  
JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 4408

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...RBC Capital Markets, Analyst . William Benton, William Blair & Co., Analyst . Robert Smith, Center for Performance **Investing** , Analyst OVERVIEW The Co. reported that the 1Q07 revenue came in at \$14m. AMSC reported...

... As a result of this order progress, the Co. has increased its full-year revenue **forecast** for Power **Electronic** System from 35% to 50% growth YoverY or an increase from \$15m in revenues last...

... the same level of revenues as it generated in FY06. 4. Higher revenues of Power **Electronic** System are **expected** to be mostly offset by lower revenues at SuperMachines and AMSC Wires as the Co...grid that does not shut down every time there is a hot spell in the **weather** is needed. 3. The Energy Policy Act of 2005 signed one-year ago on 08...new wind power and utility customers in 1Q07 and received additional orders in July from **wind farms** which enable the Co. to raise its growth **forecast** for Power **Electronic** Systems yet again. 1. Previously AMSC revised its revenue growth upwards from 25% to 35...

... upwards to 50% revenue growth YoverY. 2. Demand for AMSC's Power Electronics Solutions for **wind farms** had been a key component of its revenue growth in this business and expects that...

... I wanted to dig in a little bit into this opportunity you see with the **wind farms** . Are you seeing a variety across geographies and maybe you can just help quantify, for me, how many D-VARS might be used in an excised **wind farm** and whether that's going out in just new builds or in retrofitted?

GREGORY YUREK...

... speaking, it looks like one 8-megavar D-VAR system for about 60 megawatts of **wind farm** . We have a number of examples where that's been the case. So, I'll...

... U.K.,with very strict grid interconnection standards. We're serving probably just about every **wind farm** in Canada which was probably the first country, province-by-province, to establish grid interconnection...

...DESCRIPTORS: **Environment** ;

11/3,K/7 (Item 4 from file: 20)  
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**Q3 2006 American Superconductor Earnings Conference Call - Part 2**

FAIR DISCLOSURE WIRE

February 02, 2006

JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 4295

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... are you selling -- what's kind of the percentage mix on the D-VARS or **wind farms** to new installations versus a retro fit something that's been existing for a while...

... questions in. Jarrett, we are primarily, I would say in fact, 100% supplying to new **wind farms**. So as the new wind developer comes along and they select their wind turbine manufacturer...

... interconnection standards. We're starting to see a little bit where there have been established **wind farms**, and as grid interconnections standards are now being introduced.

They don't have to put...

...sign. That really is stepping forward in the very strong way.

Out of the research **environment** if you will into the procurement **environment** point number one.

Point number two we've been saying since last May, these two...

... ll move on and take our next question from Robert Smith with Center For Performance **Investing**, go ahead please. ROBERT SMITH, ANALYST, CENTER FOR PERFORMANCE **INVESTING**: Good morning. GREG YUREK: Hi, Bob. ROBERT SMITH: With respect to the **wind farm** market. What do you judge your penetration on a competitive market share of this market to be? Power Electronic Systems. GREG YUREK: Right, when it comes to the D-VAR, **wind farm**, whole **wind farm** kind of solution, we are probably the only key solution in North America that's...

... Well, Wind Developer is in the business to make money. So when you develop a **wind farm** I should say. You want to make money so you select your wind term manufacturer...INSTRUCTIONS)

We'll move back to the site of Robert Smith with Center for Performance **Investing**, go ahead please. ROBERT SMITH: Hi, Greg, a couple of weeks ago there was a...

...to \$20 million in revenue this quarter and a lion's share of that we **expect** to be in the Power **Electronic** Systems business. GREG YUREK: In any case, Jerry, our focus is on and we're...

11/3,K/8 (Item 5 from file: 20)

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**Q4 2005 American Superconductor Earnings Conference Call - Part 1**

FAIR DISCLOSURE WIRE

May 12, 2005

JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 4682

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... driven principally by increased D-VAR shipments at Power Electronic Systems, PES, primarily through a **wind farm** application and increased subcontract work on the LIPA cable project, offset by lower revenue for...

... with record revenue of 15.7 million, due primarily to increased D-VAR shipments for **wind farm** applications along with the delivery and commissioning of four PQ-IVR industrial power quality units...

... 7 million of orders during the fourth quarter paced by D-VAR orders for four **wind farm** customers. In addition, AMSC Wires obtained several first generation wire orders most notably for the...year. A key reason for this timing is that AMSC has not been willing to **invest** in the ordering of long leadtime components for the machines until a complete product specification... and SuperVAR product lines. This would certainly be a catalyst for more sales in an **environment** where we are already enjoying significant growth in sales to date.

And I want to...

... enable the control of voltage for power coming from renewable electricity generation sources such as **wind farms** so that they can meet the grid interconnection standards. As of April 2005, we have received orders for our D-VAR systems for 10 **wind farms** in North America and Europe. This will bring the total wind generated electric power served...

...emission energy to meet the needs of more than 335,000 homes.

The growth of **wind farms** has been great for our Power Electronic Systems business. In fact, it made up 40% of the revenue of Power **Electronic Systems** in fiscal 2005. We **expect** to see increasing sales for D-VAR for **wind farm** applications in fiscal 2006 and going forward.

In closing, I want to underscore that we...

... 42 million includes 9.9 of backlog that we already have in place with Power **Electronic Systems**. We're **expecting** that business which hit 15.7 million in the fiscal year just ended to show...

11/3,K/9 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
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05438553 SUPPLIER NUMBER: 58329067  
**WIND POWER: Gaining Momentum.**  
MOORE, TAYLOR  
EPRI Journal, 24, 4, 8  
Winter, 1999  
ISSN: 0362-3416 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 5958 LINE COUNT: 00482

... of wind turbines totaling 10 GW in capacity and representing more than \$10 billion in **investments** are up and running, many supplying a growing utility and consumer market for **environmentally** preferred, or green, power.

Wind power is now a \$2.5 billion to \$3 billion...

...on renewable resources," says Randall Swisher, AWEA executive director. In Iowa, for example, utilities have **invested** significantly to obtain a portion of total electricity supply from renewable sources. "Wind is one...

...pollution," Swisher adds.

Iowa now boasts more than 250 MW of installed wind turbines, representing **investments** of some \$300 million and a new source of income for hundreds of farmers and...power to its supply mix by buying the initial 30 MW of the Delaware Mountain **wind farm** in rural Culberson County in western Texas. The farm--planned to eventually total 250 MW...

...in two basic markets.

The primary market is the California Power Exchange (CalPX), through which **investor** -owned utilities must buy all their load and sell power

from any generating capacity that...evolving, competitive California electricity market remains uncertain in light of the current price and supply **environment**, and it is not clear whether customer markets for green power will mature quickly enough ratepayers of **investor**-owned utilities) for renewable energy projects and R&D.

Last July, the CEC completed a...

...360 ft), initially for offshore deployment in Europe, where onshore sites are scarce. "The wind **environment** in our Great Plains is even better than the offshore resource in Europe, so we...

...turbine technology, project experience, and related issues. Formed in 1989, UWIG has 38 members, including **investor**-owned, public power, and rural cooperative utilities in 15 states and academic, government, and corporate...tailored collaboration with EPRI. The project's two 600-kW turbines, specially designed for cold- **weather** operation and optimized for low wind speeds (which average 13.6 mph, or 22 km...a function of wind speed and direction. The automated system will be operated by a **weather** service provider, and **forecasts** will be sent by **electronic** mail to clients--wind facility owners and operators, the California Independent System Operator, the California...

...in each of the major wind areas. The models will be developed in parallel by **Weather** Services International (with technical assistance from Wind Economics & Technology Inc.); Denmark's Riso National Laboratory

...  
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